

November 30, 2017

Mr. David Szymanski Division of Solid and Hazardous Waste NYSDEC, Region 9 270 Michigan Avenue Buffalo, NY 14203-2999

National Grid Dewey/Kensington Service Center (Site #915144) Re: **PRR** 

Dear David:

Enclosed for your review is the Periodic Review Report (PRR) for the National Grid Dewey/Kensington Service Center Site (Site No. 915144).

The PRR includes the following from the period November 1, 2016 – November 1, 2017:

- Attachment 1 PRR
- Attachment 2 PRR Certification Form

If you have any questions, please feel free to contact me at 315.428.5652.

Sincerely,

for SPS

Steven P. Stucker, C.P.G. Lead Environmental Engineer

Kelly Lewandowski - NYSDEC ecc:

Lisa Montesano – NG

Devin Shay- Groundwater & Environmental Services, Inc.

#### I. Introduction

#### A. Brief Site Summary –

The National Grid Dewey/Kensington Service Center Site (#915144) is located in Buffalo, New York. National Grid owns the property and services its customers from the active facility. Service trucks, equipment, and materials are stored and maintained onsite. A mechanic's shop, several administrative buildings, an above ground fuel island, and an employee parking lot are currently located on-site and are part of the service center.

Prior to 1992, the service center also served as a hazardous waste management facility permitted by the New York State Department of Environmental Conservation (NYSDEC) (Part 373 Permit No. 9-1402-00397/00001-0). National Grid stored spent electrical transformers containing polychlorinated biphenyl- (PCB-) laden oil, various solid wastes, and bulk waste oils on-site. Some liquid wastes were stored within underground storage tanks (USTs). The hazardous waste management facility was closed in December 1992, in accordance with a NYSDEC-approved closure plan.

During excavation activities in the mid 1990s, it was discovered that soil and groundwater were contaminated near a UST identified as Solid Waste Management Unit (SWMU) #7. Multiple USTs were subsequently removed, and an investigation including the advancement of soil borings and the installation of groundwater monitoring wells was completed. A remedial action was completed in 2002 and a long-term groundwater monitoring program was implemented.

On October 3, 2011, National Grid received official notification that the site was deleted from the New York State Registry of Inactive Hazardous Waste Disposal Sites (letter from Ms. Kelly Lewandowski, NYSDEC Chief Site Control Section, to Mr. Chuck Willard, NG SIR Director).

- B. **Remedial Program Effectiveness** During the reporting period (November 01, 2016, to November 01, 2017), the long-term remedial objectives were met for the site.
- C. **Remedial Program Compliance** The major elements within the Institutional Control/Engineering Control(s) (IC/EC) Plan are in compliance. Refer to Attachment 3 for the Annual Monitoring Report for annual groundwater sampling events.

D. **Remedial Program Recommendations** - It is recommended that no changes be made to the IC/EC Plan. It is recommended that the Project Review Report (PRR) submittal frequency (annual) remain the same. The next PRR submittal deadline would be December 1, 2018.

#### II. Site Overview

#### A. Site Location and Boundaries -

The Dewey/Kensington Service Center is an active National Grid facility, encompasses approximately 23 acres, and is generally located within the center of Buffalo, New York in a predominantly residential area. To the west are Delaware Park, Canisius College, and Forest Lawn Cemetery; to the east are Fillmore Junior High School and the Erie County Medical Center; immediately to the west are the St. Mary School and Sisters of Charity Hospital; and to the south is a four lane expressway.

The site is bordered to south by Kensington Avenue and to the north by Dewey Avenue. The New York Central Railroad tracks boarder the site to the east. The expressway runs along the western side of the site.

#### B. Regulatory History and Remedy Features -

In September 1992, excavation activities at the facility, in the vicinity of Building #13, revealed petroleum-impacted gravel and a broken vent line connected to an underground waste oil tank. The former waste oil tank was removed and four groundwater monitoring wells (ESI-1, ESI-2, ESI-3, and ESI-4) were installed in the vicinity of the former tank to supplement an existing monitoring well (MW-1) and to facilitate periodic groundwater monitoring in this area.

In February 1994, National Grid agreed to conduct a focused Resource Conservation and Recovery Act (RCRA) Facility Assessment- (RFA-) type soil and groundwater investigation, and a Focused Risk Assessment/ Corrective Measures Study (FRA/CMS) to address the concerns identified by the RFA.

During Fall 1994, National Grid conducted soil and groundwater investigation activities in accordance with the NYSDEC-approved *Soil and Groundwater Investigation Work Plan* (1994). These investigations showed the presence of several volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) in groundwater at concentrations above NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 – *Ambient Water Quality Standards and Guidance Values* (NYSDEC, 1998, amended 2000). Based on these results, NYSDEC requested

implementation of the quarterly groundwater monitoring program proposed in the SWMU #7 Soil/Groundwater Investigation Report (1994).

The SWMU #7 Focused Risk Assessment and Corrective Measures Study Report (FRA/CMS Report) (1995, revised 1996) concluded that the limited action alternative (i.e., implementing a groundwater monitoring program) would adequately meet the corrective measure objective of mitigating the offsite migration of impacted groundwater. Following the initial submittal of the FRA/CMS Report, a Groundwater Sampling and Analysis Plan (SAP) (1996) was submitted to NYSDEC in May 1996. The May 1996 SAP was then revised based upon NYSDEC comments, and the revised SAP for the groundwater monitoring program was presented in the revised FRA/CMS Report dated June 1996.

In November 1997, National Grid entered into a Consent Order with NYSDEC to guide future site monitoring and to establish a framework for implementing additional site investigation or remediation. As mandated in the Consent Order, semiannual (spring and fall) groundwater monitoring events are conducted at SWMU #7 monitoring wells. The list of wells sampled during each groundwater monitoring event has been modified through time in response to NYSDEC requirements and the results of investigation/evaluation activities, as agreed to by NYSDEC.

The Consent Order specifies that a contingency plan must be implemented to evaluate additional remedial activities if analytical results from monitoring wells located at the property boundary indicate an exceedance of NYSDEC groundwater quality standards presented in TOGS 1.1.1 for two consecutive monitoring events. The monitoring wells designated as property boundary wells have changed, as new monitoring wells have been installed as part of the contingency plan implementation. For example, monitoring wells MW-7 and MW-9 were designated as property boundary wells in the Consent Order. In 1999, the property boundary wells included monitoring wells MW-6, MW-7, MW-11, MW-12, and MW-14. The current property boundary well arrangement includes monitoring wells MW-6, MW-11, MW-12, MW-20, MW-21, and MW-24 (installed spring 2002).

#### III. Evaluate Remedy Performance, Effectiveness, and Protectiveness

A. **Evaluation of Remedy Performance** - The wells are part of the remedy performance. However, there is no current requirement for a site inspection of the existing facility buildings, fences, or fuel tanks. Based on the well inspections and analytical data, the remedy performance has been effective in protecting facility workers and the public.

#### IV. IC/EC Plan Compliance Report

#### A. IC/EC Requirements and Compliance

1. **IC/EC Controls** 

The ICs/ECs included:

- Semi-annual groundwater monitoring well inspections of the following wells: MW-1, MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-19, MW-20, MW-21, MW-24, MW-25, and ESI-1.
- Semi-annual groundwater monitoring well sampling and analysis of the following wells: MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, MW-24.
- 2. **IC/EC Goals** Each goal is being met and/or working effectively.
- 3. **IC/EC Corrective Measures** No deficiencies were noted during the quarterly inspections.
- 4. **IC/EC Conclusions/Recommendations** The program is in compliance and there are no recommendations at this time.
- B. IC/EC Certification Refer to PRR Form Attachment 2 for the certification.
- **V. Monitoring Plan Compliance Report** The Annual Monitoring Report is enclosed as Attachment 3.
- VI. Operation & Maintenance (O&M) Plan Compliance Report Not Applicable
- VII. Overall PRR Conclusions and Recommendations
  - A. Compliance with Site Management Plan (SMP)
    - 1. **Requirements -** All IC/EC Plan requirements were met during this reporting period.
    - 2. **Exposure Pathways** There are no new completed exposure pathways resulting in unacceptable risk.
    - 3. **Proposed Plans and Schedule to Meet Compliance** No plan proposed.

- B. **Performance and Effectiveness of the Remedy** The remedy as described by the Record of Decision and executed by National Grid has been effective in meeting the program goals.
- C. Future PRR Submittals The frequency of PRR Submittals should remain annual. Therefore, the next PRR submittal deadline will be December 1, 2018.

VIII. Additional Guidance - Not Needed



# Enclosure 2 NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form



| Sit        | Site Details<br>e No. 915144   | Box 1    |      |  |  |  |  |  |  |
|------------|--|----------|------|--|--|--|--|--|--|
| Sit        | e Name Niagara Mohawk Dewey Ave. Service Sta.  |          |      |  |  |  |  |  |  |
| City<br>Co | e Address: 144 Kensington Avenue Zip Code: 14214<br>y/Town: Buffalo<br>unty: Erie<br>e Acreage:  |          |      |  |  |  |  |  |  |
| Re         | porting Period: November 01, 2016 to November 01, 2017   |          |      |  |  |  |  |  |  |
|            |  | YES      | NO   |  |  |  |  |  |  |
| 1.         | Is the information above correct?  | X        |      |  |  |  |  |  |  |
|            | If NO, include handwritten above or on a separate sheet.   |          |      |  |  |  |  |  |  |
| 2.         | Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?                         |          | X    |  |  |  |  |  |  |
| 3.         | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?  |          | X    |  |  |  |  |  |  |
| 4.         | Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                 |          | X    |  |  |  |  |  |  |
|            | If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form |          |      |  |  |  |  |  |  |
| 5.         | Is the site currently undergoing development?  |          | X    |  |  |  |  |  |  |
|            |  |          |      |  |  |  |  |  |  |
|            |  | Box 2    |      |  |  |  |  |  |  |
|            |  | YES      | NO   |  |  |  |  |  |  |
| 6.         | Is the current site use consistent with the use(s) listed below?  Commercial and Industrial  | X        |      |  |  |  |  |  |  |
| 7.         | Are all ICs/ECs in place and functioning as designed?  | X        |      |  |  |  |  |  |  |
|            | IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.                          |          |      |  |  |  |  |  |  |
| AC         | Corrective Measures Work Plan must be submitted along with this form to address t  | hese iss | ues. |  |  |  |  |  |  |
| <br>Sig    | nature of Owner, Remedial Party or Designated Representative Date  |          |      |  |  |  |  |  |  |

**SITE NO. 915144** Box 3 **Description of Institutional Controls** <u>Owner</u> **Institutional Control** <u>Parcel</u> National Grid 89.16-1-2 Monitoring Plan O&M Plan National Grid 89.16-1-6 Monitoring Plan O&M Plan Box 4 **Description of Engineering Controls** None Required Not Applicable/No EC's

| Box | 5 |
|-----|---|
|-----|---|

|    | Periodic Review Report (PRR) Certification Statements  |
|----|--|
| 1. | I certify by checking "YES" below that:  |
|    | a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;   |
|    | <ul> <li>b) to the best of my knowledge and belief, the work and conclusions described in this certification<br/>are in accordance with the requirements of the site remedial program, and generally accepted<br/>engineering practices; and the information presented is accurate and compete.</li> </ul> |
|    | YES NO   |
|    | $oldsymbol{oldsymbol{eta}}$  |
| 2. | If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:  |
|    | (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;   |
|    | (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;  |
|    | (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;   |
|    | (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and  |
|    | (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.  |
|    | YES NO   |
|    | <b>[X</b>  |
|    | IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.  |
|    | A Corrective Measures Work Plan must be submitted along with this form to address these issues.  |
|    | Signature of Owner, Remedial Party or Designated Representative Date   |
|    |  |

#### IC CERTIFICATIONS SITE NO. 915144

Box 6

#### SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

| Mark A. Boorad<br>print r | <del>`````</del>        | at <u>5 Technology Place, Suite 4, Eas</u><br>print business addres | <del></del>               |
|---------------------------|-------------------------|---|---------------------------|
| am certifying as _        | Owners representative f | from National Grid  | (Owner or Remedial Party) |
| for the Site named        |                         |   |                           |
| Signature of Own          |                         | Designated Representative   | Date                      |



November 30, 2017

Mr. David Szymanski Division of Solid and Hazardous Waste NYSDEC, Region 9 270 Michigan Avenue Buffalo, NY 14203-2999

Re: National Grid Dewey/Kensington Service Center (Site #915144) 2017 Annual Groundwater Monitoring Report

Dear David:

Enclosed for your review is the Annual Groundwater Monitoring Report for the National Grid Dewey/Kensington Service Center Site (Site No. 915144).

The Annual Groundwater Report includes the following from the period November 1, 2016- November 1, 2017:

- Figures: Site Location Map, Site Map, and Groundwater Monitoring Map
- Tables: Groundwater Elevations and Groundwater Analytical Results Total PCBs
- Appendices: Groundwater Monitoring Field Data and Groundwater Monitoring Laboratory Data

If you have any questions, please feel free to contact me at 315.428.5652.

Sincerely,

for SPS

Steven P. Stucker, C.P.G. Lead Environmental Engineer

cc: Kelly Lewandowski - NYSDEC

Lisa Montesano – NG

Devin T. Shay- Groundwater & Environmental Services, Inc.

## nationalgrid

## Dewey/Kensington Service Center 144 Kensington Avenue, Buffalo, New York

## 2017 Annual Groundwater Monitoring Report



Prepared by:



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## **Appendices**

Appendix A Groundwater Monitoring Field Data
Appendix B Groundwater Monitoring Laboratory Data



i

## Introduction

#### 1.1 Introduction

This annual report presents the results of the groundwater sampling and analysis activities conducted by Groundwater and Environmental Services, Inc. (GES) at the National Grid Dewey/Kensington Service Center in Buffalo, New York (the site). These activities were completed as part of ongoing investigations of a former underground storage tank (UST), identified as Solid Waste Management Unit (SWMU) #7. The April 2017 and October 2017 groundwater monitoring events were conducted in conformance with the Order on Consent (Consent Order) Index Number R9-4407-96-09, dated November 19, 1997, between National Grid and the New York State Department of Environmental Conservation (NYSDEC) to monitor the potential migration of impacted groundwater associated with SWMU #7. As further discussed in Section 1.3, the SWMU #7 groundwater monitoring program was modified as identified in NYSDEC's July 22, 2003 letter, which presents comments on the 2002 Soil Investigation and Spring/Fall 2002 Groundwater Monitoring Report.

## 1.2 Background and Site Investigation History

The Dewey/Kensington Service Center is an active facility located at 144 Kensington Avenue between Dewey and Kensington Avenues in Buffalo, New York (**Figure 1-1**). The service center previously included a hazardous waste management facility permitted by NYSDEC (Part 373 Permit No. 9-1402-00397/00001-0). The hazardous waste management facility was closed in December 1992 in accordance with a NYSDEC-approved closure plan.

In September 1992, excavation activities at the facility in the vicinity of Building #13 revealed petroleum-impacted gravel and a broken vent line connected to an underground waste oil tank. The waste oil tank was subsequently removed, and four groundwater monitoring wells (ESI-1, ESI-2, ESI-3, and ESI-4) were installed in the vicinity of the former tank to supplement an existing monitoring well (MW-1) and to facilitate periodic groundwater monitoring in this area. **Figure 1-2** illustrates relevant site features and the locations of soil borings and monitoring wells.

In February 1994, National Grid agreed to conduct a focused Resource Conservation and Recovery Act (RCRA) Facility Assessment- (RFA-) type soil and groundwater investigation, and a Focused Risk Assessment/ Corrective Measures Study (FRA/CMS) to address the concerns identified by the RFA.

During Fall 1994, National Grid conducted soil and groundwater investigation activities in accordance with the NYSDEC-approved *Soil and Groundwater Investigation Work Plan* (1994). These investigations showed the presence of several volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) in groundwater at concentrations above NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 – *Ambient Water Quality Standards and Guidance Values* (NYSDEC, 1998, amended 2000). Based on these results, NYSDEC requested implementation of the quarterly groundwater monitoring program proposed in the *SWMU #7 Soil/Groundwater Investigation Report* (1994).

The SWMU #7 Focused Risk Assessment and Corrective Measures Study Report (FRA/CMS Report) (1995, revised 1996) concluded that the limited action alternative (i.e., implementing a groundwater



monitoring program) would adequately meet the corrective measure objective of mitigating the offsite migration of impacted groundwater. Following the initial submittal of the FRA/CMS Report, a *Groundwater Sampling and Analysis Plan* (SAP) (1996) was submitted to NYSDEC in May 1996. The May 1996 SAP was then revised based upon NYSDEC comments, and the revised SAP for the groundwater monitoring program was presented in the revised FRA/CMS Report dated June 1996.

In November 1997, National Grid entered into a Consent Order with NYSDEC to guide future site monitoring and to establish a framework for implementing additional site investigation or remediation. As mandated in the Consent Order, semi-annual (spring and fall) groundwater monitoring events are conducted at SWMU #7 monitoring wells. The list of wells sampled during each groundwater monitoring event has been modified through time in response to NYSDEC requirements and the results of investigation/evaluation activities, as agreed to by NYSDEC.

The Consent Order specifies that a contingency plan must be implemented to evaluate additional remedial activities if analytical results from monitoring wells located at the property boundary indicate an exceedance of NYSDEC groundwater quality standards presented in TOGS 1.1.1 for two consecutive monitoring events. The monitoring wells designated as property boundary wells have changed, as new monitoring wells have been installed as part of the contingency plan implementation. For example, monitoring wells MW-7 and MW-9 were designated as property boundary wells in the Consent Order. In 1999, the property boundary wells included monitoring wells MW-6, MW-11, MW-12, and MW-14. The current property boundary well arrangement includes monitoring wells MW-6, MW-11, MW-12, MW-20, MW-21, and MW-24 (installed spring 2002). Refer to Figure 1-2 for well locations. Monitoring well construction details are summarized in **Table 1-1**.

The table below summarizes instances when groundwater samples from two consecutive groundwater sampling events exhibited the presence of constituents in groundwater above TOGS standards and guidance values in the property boundary wells. The table also presents the corresponding NYSDEC-approved contingency plan activities that were conducted in response to such instances.

| Consecutive Sampling Events with<br>Property Boundary Well TOGS Standards<br>and Guidance Value Exceedances | Corresponding Contingency Plan Activity   |
|---|---|
| Fall 1997 and Spring 1998: PCBs in groundwater samples collected from monitoring well MW-9.                 | Conducted MW-9 supplemental investigation, including installing additional monitoring wells MW-13, MW-14, and MW-15 in October 1998.  |
| Spring 1999 and Fall 1999: PCBs in groundwater samples collected from monitoring wells MW-9 and MW-14.      | Conducted supplemental site investigation, including research of site history and installing additional monitoring wells MW-16, MW-17, MW-18, MW-19, MW-20, and MW-21 in August and September 2000.   |
| Fall 2000 and Spring 2001: PCBs in groundwater samples collected from monitoring wells MW-9 and MW-14.      | Conducted 2002 soil investigation, including advancing soil borings (SB-101, MW-22, SB-102, SB-103, SB-104, SB-105, SB-106, MW-23, and SB-107), installing monitoring wells (MW-22, MW-23, and MW-24) and sampling and fingerprint analysis of light non-aqueous phase liquid (LNAPL) in monitoring well ESI-1. |



On October 3, 2011, National Grid received official notification that the site was deleted from the New York State Registry of Inactive Hazardous Waste Disposal Sites (letter from Ms. Kelly Lewandowski, NYSDEC Chief Site Control Section, to Mr. Chuck Willard, NG SIR Director).

## 1.3 Modifications to the Groundwater Monitoring Program

In the 2002 Investigation Report, modifications to the SWMU #7 groundwater monitoring program were recommended. The recommendations were based on the results of the 2002 soil investigation, the 2002 groundwater monitoring events, a review of previous soil and groundwater results, and LNAPL fingerprinting. NYSDEC approved the recommendations presented in the 2002 Report (with select modifications) in a July 22, 2003 letter to National Grid. The recommendations, inclusive of NYSDEC's modifications, were as follows:

- Discontinue VOC analysis except at monitoring wells ESI-1 and MW-16. LNAPL (if present) in monitoring well ESI-1 will be removed. If LNAPL is not present for three consecutive monitoring events in monitoring well ESI-1, groundwater will be sampled and analyzed for VOCs annually. To monitor the conditions downgradient of monitoring well ESI-1, groundwater from monitoring well MW-16 will be sampled and analyzed for VOCs annually. If VOCs are detected in groundwater at MW-16, additional VOC analysis will be required from monitoring wells located downgradient of MW-16.
- Discontinue lead analysis for all monitoring wells.
- Continue PCB analysis at select monitoring wells (i.e., the property boundary wells, MW-1, and MW-9).
- Discontinue data validation (for all groundwater samples collected) for every groundwater monitoring event.
- Continue to sample and measure groundwater levels from the monitoring wells, as summarized in Section 3 Schedule.

Per NYSDEC's July 27, 2011 letter to National Grid, semi-annual groundwater sampling events will continue. However, both monitoring events will be documented in a single annual report to be submitted in the fall of each year.



## **Groundwater Monitoring Activities**

## 2.1 Groundwater Well Gauging

For the April 18, 2017, and October 18-19, 2017 events, static groundwater levels (presented in Table 1-1) were measured prior to groundwater sample collection to evaluate groundwater flow direction. Groundwater levels were obtained from 19 of the groundwater monitoring wells associated with SWMU #7 (MW-1, MW-2, MW-5, MW-6, MW-7, MW-9, MW-10, MW-11, MW-12, MW-13, MW-15, MW-16, MW-17, MW-19, MW-20, MW-21, MW-24, MW-25, and ESI-1). During the April 2017 well gauging event, data was not collected at MW-7 due to a car parked on top of the well.

The groundwater flow direction is generally toward the south. Refer to **Figure 2-1** for the general groundwater flow direction.

### 2.2 Groundwater Analytical Results

For the April 2017 and October 2017 events, groundwater samples were analyzed for PCBs. In addition, field measurements of pH, temperature, conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential were obtained prior to sample collection. The groundwater monitoring field data is included in **Appendix A**.

Eight monitoring wells (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, and MW-24) were sampled and analyzed for PCBs during the April 2017 and October 2017 events. Analytical results were compared to the New York State ambient water quality standards and guidance values and groundwater effluent limitations presented in TOGS 1.1.1 (0.09 parts per billion for total PCBs).

For the April 2017 sampling event, PCBs were detected in one of the eight groundwater samples collected from site groundwater monitoring wells (16.2 parts per billion [ppb] in the sample collected from MW-9). Additionally, the sample for MW-1 showed a detection above the method detection limit but below the reporting limit. For the October 2017 sampling event, PCBs were not detected in any of the eight groundwater samples collected from site wells.

Total PCB results from the groundwater monitoring events are presented in **Table 2-1**. **Appendix B** presents the laboratory analytical reports.

### 2.3 LNAPL Observation

Prior to groundwater purging and sample collection activities, each monitoring well was gauged with an oil/water interface probe to measure the presence or absence of LNAPL. LNAPL was not observed at any of the monitoring wells during the April 2017 event. Trace amounts of LNAPL were detected at wells ESI-1 and MW-16 for the October 2017 event.

### 2.4 Other Operations Maintenance and Monitoring Activities

During each semi-annual groundwater sampling event, the sorbent boom was checked at monitoring well ESI-1.



## Schedule

### 3.1 Schedule

Based on the results of the groundwater monitoring program and the recommendations presented in the 2002 Investigation Report (subsequently modified by the NYSDEC's July 22, 2003 response letter); the modified groundwater monitoring program, consisting of semi-annual (spring and fall) groundwater monitoring events, will be continued. The scope of the monitoring program is summarized in the following table.

| Monitoring Wells for Continued<br>Groundwater Sampling | Monitoring Wells for<br>Groundwater Level<br>Measurement Only |
|--|---|
| ESI-1 (VOC analysis)*                                  | MW-2  |
| MW-1 (PCB analysis) ***                                | MW-5  |
| MW-6 (PCB analysis) ***                                | MW-17   |
| MW-9 (PCB analysis) ***                                | MW-10   |
| MW-11 (PCB analysis) ***                               | MW-13   |
| MW-12 (PCB analysis) ***                               | MW-15   |
| MW-16 (VOC analysis – fall only)                       | MW-17   |
| MW-20 (PCB analysis) ***                               | MW-197  |
| MW-21 (PCB analysis) ***                               |   |
| MW-24 (PCB analysis) ***                               |   |

#### Notes:

- One groundwater sample will be collected from monitoring well ESI-1 only if LNAPL is not present for three
  consecutive sampling events.
- \*\*\* Monitoring well will be sampled twice a year.

The next semi-annual groundwater monitoring event is scheduled for April 2018. The NYSDEC Project Manager will be notified at least one week in advance of the event. Reporting will be annual (submitted after the fall event) as part of the Periodic Review Report.



## **Conclusions and Recommendations**

## 4.1 Conclusions

Eight monitoring wells were sampled and analyzed for PCBs during the April 2017 and October 2017 events (MW-1, MW-6, MW-9, MW-11, MW-12, MW-20, MW-21, and MW-24). For the April 2017 sampling event, PCBs were detected in the groundwater sample collected from one of the eight site groundwater monitoring wells (MW-9). For the October 2017 sampling event, PCBs were not detected in any of the groundwater samples collected from the eight site groundwater monitoring wells.

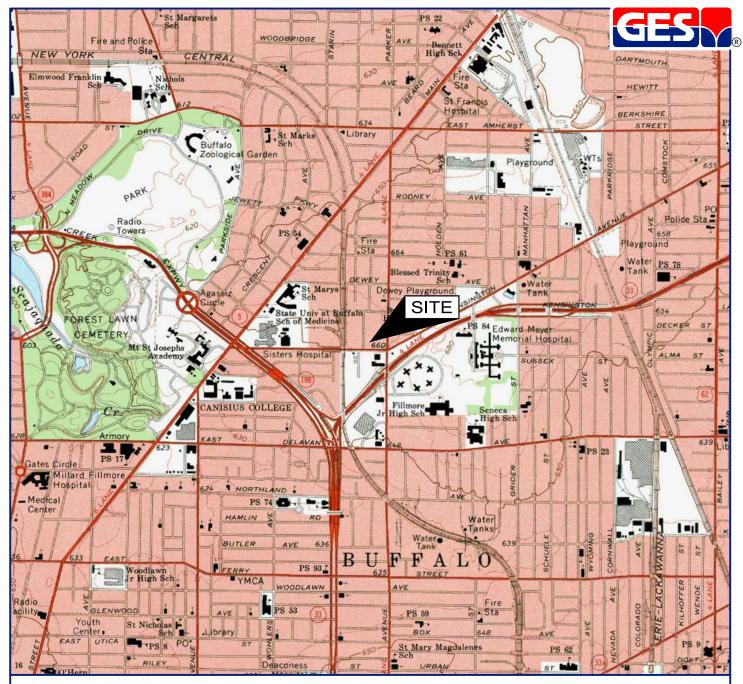
### 4.2 Recommendations

At this time, no changes to the semi-annual site sampling plan are proposed.



## Figures

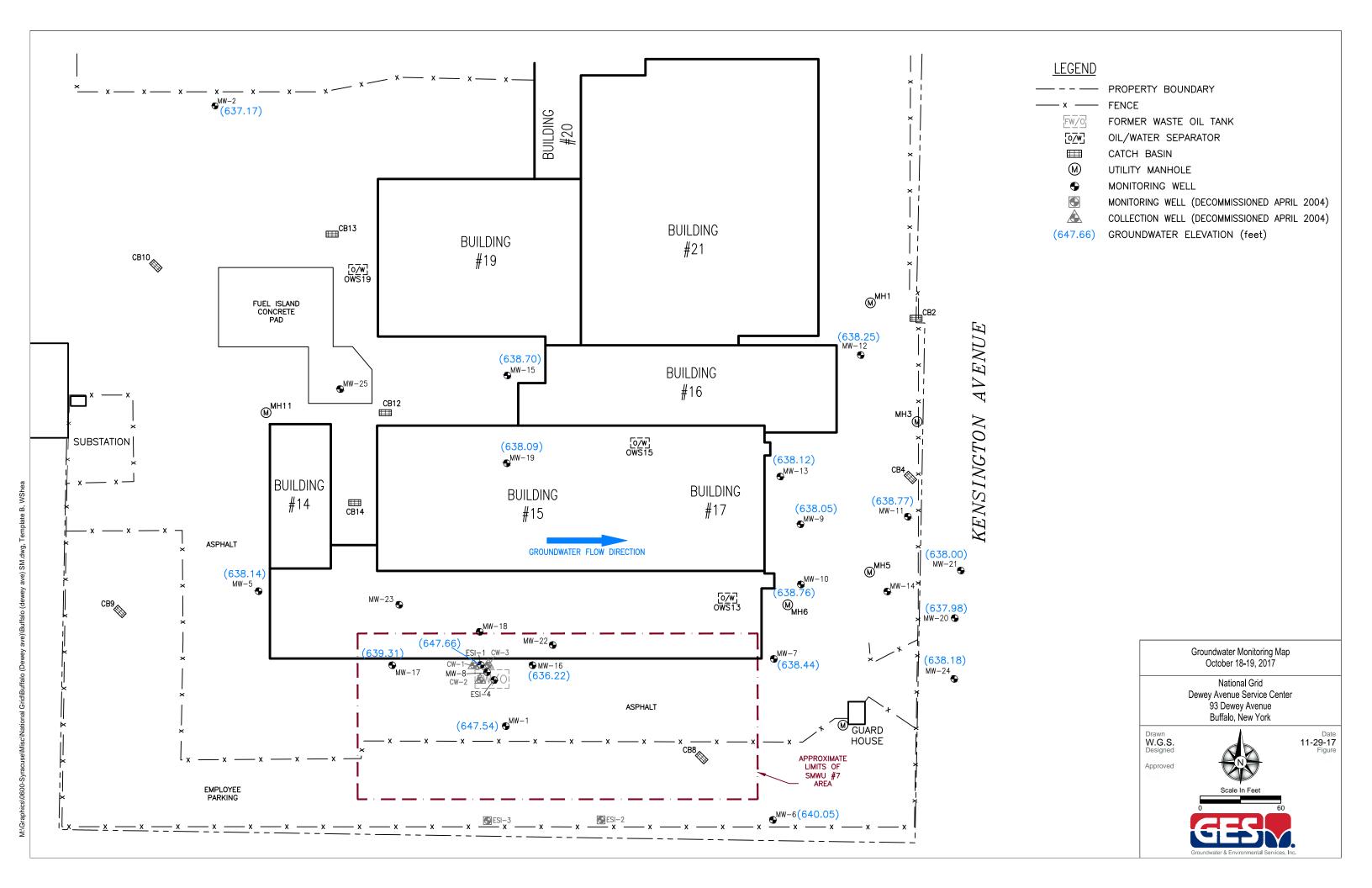




SOURCE: USGS 7.5 MINUTE SERIES TOPOGRAPHIC QUADRANGLE 1965 BUFFALO NE, NEW YORK CONTOUR INTERVAL = 10'



| DRAFTED BY: W.A.W. | SITE LOCATION MAP                               |  |        |  |  |  |  |  |  |
|--------------------|---|--|--------|--|--|--|--|--|--|
| CHECKED BY:        | DEWEY AVENUE<br>93 DEWE                         | AL GRID<br>SERVICE CENTI<br>Y AVENUE<br>NEW YORK | €R     |  |  |  |  |  |  |
| NORTH              | Groundwater & Environ 5 TECHNOLOGY PLACE, SUITE |  |        |  |  |  |  |  |  |
|                    | SCALE IN FEET                                   | DATE   | FIGURE |  |  |  |  |  |  |
|                    | 0 2000  | 11-2-16  | 1-1    |  |  |  |  |  |  |



## **Tables**





| Well ID | TOC<br>Elevation<br>(ft AMSL) | Depth to Well<br>Bottom<br>(ft BTOC) | Well Bottom<br>Elev.<br>(ft AMSL) | June 2006<br>DTW<br>(ft BTOC) | June 2006<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | November<br>2006 DTW<br>(ft BTOC) | November<br>2006<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2007<br>DTW<br>(ft BTOC) | April 2007<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2007<br>DTW<br>(ft BTOC) | October 2007<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) |
|---------|-------------------------------|--------------------------------------|-----------------------------------|-------------------------------|---|-----------------------------------|--|--------------------------------|--|----------------------------------|--|
| MW-1    | 650.76                        | 29.90                                | 620.86                            | 3.38                          | 647.38  | 3.20                              | 647.56   | 2.80                           | 647.96   | 3.37                             | 647.39   |
| MW-2    | 650.55                        | 44.17                                | 606.38                            | -                             | -   | -                                 | -  | -                              | -  | -                                | -  |
| MW-5    | 651.65                        | 21.40                                | 630.25                            | 11.40                         | 640.25  | 12.30                             | 639.35   | 11.42                          | 640.23   | 12.95                            | 638.70   |
| MW-6    | 650.25                        | 21.05                                | 629.20                            | 10.90                         | 639.35  | 11.50                             | 638.75   | 7.42                           | 642.83   | 10.82                            | 639.43   |
| MW-7    | 650.02                        | 21.30                                | 628.72                            | 11.91                         | 638.11  | 11.73                             | 638.29   | 10.78                          | 639.24   | 11.92                            | 638.10   |
| MW-9    | 648.95                        | 22.05                                | 626.90                            | 10.98                         | 637.97  | 10.66                             | 638.29   | 10.80                          | 638.15   | 10.62                            | 638.33   |
| MW-10   | 649.46                        | 24.25                                | 625.21                            | 11.10                         | 638.36  | 9.45                              | 640.01   | 9.80                           | 639.66   | 10.46                            | 639.00   |
| MW-11   | 647.11                        | 20.22                                | 626.89                            | 8.75                          | 638.36  | 8.56                              | 638.55   | 8.07                           | 639.04   | 8.82                             | 638.29   |
| MW-12   | 646.90                        | 19.55                                | 627.35                            | 8.60                          | 638.30  | 8.47                              | 638.43   | 7.89                           | 639.01   | 8.58                             | 638.32   |
| MW-13   | 650.05                        | 26.25                                | 623.80                            | 11.85                         | 638.20  | 11.50                             | 638.55   | 10.10                          | 639.95   | 11.70                            | 638.35   |
| MW-15   | 651.88                        | 23.80                                | 628.08                            | 12.42                         | 639.46  | 12.19                             | 639.69   | 9.62                           | 642.26   | 12.94                            | 638.94   |
| MW-16   | 651.72                        | 20.36                                | 631.36                            | 8.58                          | 643.14  | 7.30                              | 644.42   | 8.00                           | 643.72   | 6.95                             | 644.77   |
| MW-17   | 651.76                        | 20.60                                | 631.16                            | 12.52                         | 639.24  | 12.96                             | 638.80   | 13.27                          | 638.49   | 12.93                            | 638.83   |
| MW-19   | 651.69                        | 24.00                                | 627.69                            | 12.90                         | 638.79  | 12.85                             | 638.84   | 12.20                          | 639.49   | 13.00                            | 638.69   |
| MW-20   | 646.76                        | 22.60                                | 624.16                            | 8.86                          | 637.90  | 8.64                              | 638.12   | 8.05                           | 638.71   | 8.92                             | 637.84   |
| MW-21   | 646.70                        | 21.85                                | 624.85                            | 8.42                          | 638.28  | 8.40                              | 638.30   | 7.98                           | 638.72   | 8.85                             | 637.85   |
| MW-24   | 647.01                        | 24.25                                | 622.76                            | 9.00                          | 638.01  | 8.69                              | 638.32   | 8.08                           | 638.93   | 8.88                             | 638.13   |
| ESI-1   | 651.66                        | 21.50                                | 630.16                            | 4.00 (3.98)                   | 647.66 (647.68)   | 4.00                              | 647.66   | 3.50                           | 648.16   | 4.10                             | 647.56   |
|         | Notes:                        |                                      |                                   |                               |   |                                   |  |                                |  |                                  |  |

TOC = Top of Well Casing AMSL = Above Mean Sea Level DTW = Depth to Water BTOC = Below Top of Casing Light non-aqueous phase liquid (LNAPL) observed in well ESI-1 only. Numbers in parentheses present depths and elevations to LNAPL.

\* = MW-2 is typically inaccessible due to staged equipment.

- = Depth is unknown



| Well ID | April 2008<br>DTW<br>(ft BTOC) | April 2008<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2008<br>DTW<br>(ft BTOC) | October 2008<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2009<br>DTW<br>(ft BTOC) | April 2009<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2009<br>DTW<br>(ft BTOC) | October 2009<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2010<br>DTW<br>(ft BTOC) | April 2010<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) |
|---------|--------------------------------|--|----------------------------------|--|--------------------------------|--|----------------------------------|--|--------------------------------|--|
| MW-1    | 2.95                           | 647.81   | 3.50                             | 647.26   | 2.85                           | 647.91   | 3.00                             | 647.76   | 2.95                           | 647.81   |
| MW-2    | -                              | -  | -                                | -  | -                              | -  | -                                | -  | *                              | *  |
| MW-5    | 11.41                          | 640.24   | 13.47                            | 638.18   | 12.00                          | 639.65   | 11.48                            | 640.17   | 10.60                          | 641.05   |
| MW-6    | 9.92                           | 640.33   | 10.40                            | 639.85   | 7.85                           | 642.40   | 10.60                            | 639.65   | 8.90                           | 641.35   |
| MW-7    | 11.04                          | 638.98   | 12.10                            | 637.92   | 10.38                          | 639.64   | 11.23                            | 638.79   | 10.88                          | 639.14   |
| MW-9    | 10.25                          | 638.70   | 11.02                            | 637.93   | 9.98                           | 638.97   | 10.63                            | 638.32   | 10.45                          | 638.50   |
| MW-10   | 10.49                          | 638.97   | 10.82                            | 638.64   | 10.40                          | 639.06   | 10.75                            | 638.71   | 10.46                          | 639.00   |
| MW-11   | 8.43                           | 638.68   | 8.68                             | 638.43   | 8.15                           | 638.96   | 8.44                             | 638.67   | 8.52                           | 638.59   |
| MW-12   | 8.12                           | 638.78   | 8.00                             | 638.90   | 7.68                           | 639.22   | 8.10                             | 638.80   | 8.02                           | 638.88   |
| MW-13   | 11.40                          | 638.65   | 11.83                            | 638.22   | 11.03                          | 639.02   | 11.45                            | 638.60   | 11.40                          | 638.65   |
| MW-15   | 12.68                          | 639.20   | 13.25                            | 638.63   | 11.78                          | 640.10   | 12.50                            | 639.38   | 12.40                          | 639.48   |
| MW-16   | 7.87                           | 643.85   | 6.79                             | 644.93   | 6.26                           | 645.46   | 6.00                             | 645.72   | 5.20                           | 646.52   |
| MW-17   | 13.72                          | 638.04   | 13.05                            | 638.71   | 12.25                          | 639.51   | 12.11                            | 639.65   | 12.20                          | 639.56   |
| MW-19   | 12.70                          | 638.99   | 13.05                            | 638.64   | 11.96                          | 639.73   | 12.70                            | 638.99   | 12.55                          | 639.14   |
| MW-20   | 8.38                           | 638.38   | 8.88                             | 637.88   | 7.95                           | 638.81   | 8.40                             | 638.36   | 8.25                           | 638.51   |
| MW-21   | 8.04                           | 638.66   | 8.68                             | 638.02   | 7.93                           | 638.77   | 8.15                             | 638.55   | 8.20                           | 638.50   |
| MW-24   | 8.47                           | 638.54   | 8.95                             | 638.06   | 8.00                           | 639.01   | 8.55                             | 638.46   | 8.32                           | 638.69   |
| ESI-1   | 3.66                           | 648.00   | 4.28                             | 647.38   | 3.55                           | 648.11   | 3.70                             | 647.96   | 3.60                           | 648.06   |

#### Notes:

<sup>\* =</sup> MW-2 is typically inaccessible due to staged equipment.

<sup>- =</sup> Depth is unknown



| Well ID | October 2010<br>DTW<br>(ft BTOC) | October 2010<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2011<br>DTW<br>(ft BTOC) | April 2011<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2011<br>DTW<br>(ft BTOC) | October 2011<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2012<br>DTW<br>(ft BTOC) | April 2012<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2012<br>DTW<br>(ft BTOC) | October 2012<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) |
|---------|----------------------------------|--|--------------------------------|--|----------------------------------|--|--------------------------------|--|----------------------------------|--|
| MW-1    | 2.95                             | 647.81   | 2.85                           | 647.91   | 3.07                             | 647.69   | 3.41                           | 647.35   | 3.30                             | 647.46   |
| MW-2    | *                                | *  | *                              | *  | 15.26                            | 635.29   | 12.75                          | 637.80   | 12.20                            | 638.35   |
| MW-5    | 11.10                            | 640.55   | 10.68                          | 640.97   | 11.55                            | 640.10   | 11.72                          | 639.93   | 11.25                            | 640.40   |
| MW-6    | 8.50                             | 641.75   | 6.90                           | 643.35   | 10.20                            | 640.05   | 10.10                          | 640.15   | 9.90                             | 640.35   |
| MW-7    | 11.13                            | 638.89   | 9.46                           | 640.56   | 11.56                            | 638.46   | 11.69                          | 638.33   | 10.88                            | 639.14   |
| MW-9    | 10.15                            | 638.80   | 9.70                           | 639.25   | 10.76                            | 638.19   | 11.02                          | 637.93   | 10.58                            | 638.37   |
| MW-10   | 10.20                            | 639.26   | 9.48                           | 639.98   | 10.39                            | 639.07   | 10.88                          | 638.58   | 10.76                            | 638.70   |
| MW-11   | 8.57                             | 638.54   | 7.80                           | 639.31   | 8.76                             | 638.35   | 8.98                           | 638.13   | 8.14                             | 638.97   |
| MW-12   | 7.75                             | 639.15   | 7.60                           | 639.30   | 8.42                             | 638.48   | 8.50                           | 638.40   | 8.24                             | 638.66   |
| MW-13   | 11.12                            | 638.93   | 10.66                          | 639.39   | 11.65                            | 638.40   | 11.95                          | 638.10   | 11.50                            | 638.55   |
| MW-15   | 11.75                            | 640.13   | 11.58                          | 640.30   | 12.81                            | 639.07   | 13.35                          | 638.53   | 12.47                            | 639.41   |
| MW-16   | 5.67                             | 646.05   | 6.45                           | 645.27   | 5.40                             | 646.32   | 6.65                           | 645.07   | 6.50                             | 645.22   |
| MW-17   | 11.67                            | 640.09   | 11.57                          | 640.19   | 11.86                            | 639.90   | 12.80                          | 638.96   | 12.37                            | 639.39   |
| MW-19   | 12.22                            | 639.47   | 11.08                          | 640.61   | 12.82                            | 638.87   | 13.27                          | 638.42   | 12.63                            | 639.06   |
| MW-20   | 8.12                             | 638.64   | 7.55                           | 639.21   | 8.48                             | 638.28   | 8.73                           | 638.03   | 8.82                             | 637.94   |
| MW-21   | 8.06                             | 638.64   | 7.65                           | 639.05   | 8.35                             | 638.35   | 8.80                           | 637.90   | 8.34                             | 638.36   |
| MW-24   | 8.22                             | 638.79   | 7.60                           | 639.41   | 8.53                             | 638.48   | 8.80                           | 638.21   | 8.40                             | 638.61   |
| ESI-1   | 3.55                             | 648.11   | 3.68                           | 647.98   | 3.94                             | 647.72   | 4.18                           | 647.48   | 4.40                             | 647.26   |

#### Notes:

<sup>\* =</sup> MW-2 is typically inaccessible due to staged equipment.

<sup>- =</sup> Depth is unknown



| Well ID | April 2013<br>DTW<br>(ft BTOC) | April 2013<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2013<br>DTW<br>(ft BTOC) | October 2013<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2014<br>DTW<br>(ft BTOC) | April 2014<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2014<br>DTW<br>(ft BTOC) | October 2014<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2015<br>DTW<br>(ft BTOC) | April 2015<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) |
|---------|--------------------------------|--|----------------------------------|--|--------------------------------|--|----------------------------------|--|--------------------------------|--|
| MW-1    | 3.02                           | 647.74   | 3.23                             | 647.53   | 3.02                           | 647.74   | 3.82                             | 646.94   | 2.90                           | 647.86   |
| MW-2    | 11.62                          | 638.93   | 11.42                            | 639.13   | 11.30                          | 639.25   | 15.40                            | 635.15   | 14.60                          | 635.95   |
| MW-5    | 10.89                          | 640.76   | 11.58                            | 640.07   | 9.62                           | 642.03   | 12.53                            | 639.12   | 9.81                           | 641.84   |
| MW-6    | 7.58                           | 642.67   | 8.25                             | 642.00   | 7.95                           | 642.30   | 11.15                            | 639.10   | 8.46                           | 641.79   |
| MW-7    | 10.31                          | 639.71   | 11.30                            | 638.72   | 9.58                           | 640.44   | 11.98                            | 638.04   | 10.30                          | 639.72   |
| MW-9    | 10.07                          | 638.88   | 10.00                            | 638.95   | 9.75                           | 639.20   | 11.16                            | 637.79   | 10.26                          | 638.69   |
| MW-10   | 9.57                           | 639.89   | 10.51                            | 638.95   | 10.08                          | 639.38   | Not Gauged                       | Not Gauged   | 10.05                          | 639.41   |
| MW-11   | 8.12                           | 638.99   | 8.25                             | 638.86   | 7.95                           | 639.16   | 8.80                             | 638.31   | 8.23                           | 638.88   |
| MW-12   | 7.91                           | 638.99   | 8.04                             | 638.86   | 7.73                           | 639.17   | 8.90                             | 638.00   | 8.00                           | 638.90   |
| MW-13   | 11.05                          | 639.00   | 11.31                            | 638.74   | 10.86                          | 639.19   | 12.17                            | 637.88   | 11.75                          | 638.30   |
| MW-15   | 12.21                          | 639.67   | 12.22                            | 639.66   | 12.08                          | 639.80   | 13.62                            | 638.26   | 12.50                          | 639.38   |
| MW-16   | 5.75                           | 645.97   | 4.82                             | 646.90   | 5.55                           | 646.17   | 6.06                             | 645.66   | 5.75                           | 645.97   |
| MW-17   | 11.75                          | 640.01   | 12.45                            | 639.31   | 11.23                          | 640.53   | 12.19                            | 639.57   | 10.87                          | 640.89   |
| MW-19   | 12.26                          | 639.43   | 12.52                            | 639.17   | 12.50                          | 639.19   | 13.56                            | 638.13   | 12.49                          | 639.20   |
| MW-20   | 7.80                           | 638.96   | 8.20                             | 638.56   | 7.80                           | 638.96   | 9.00                             | 637.76   | 8.12                           | 638.64   |
| MW-21   | 7.80                           | 638.90   | 8.20                             | 638.50   | 7.80                           | 638.90   | 8.72                             | 637.98   | 8.14                           | 638.56   |
| MW-24   | 7.90                           | 639.11   | 8.30                             | 638.71   | 7.92                           | 639.09   | 9.13                             | 637.88   | 8.22                           | 638.79   |
| ESI-1   | 4.00                           | 647.66   | 4.20                             | 647.46   | 3.80                           | 647.86   | 4.60                             | 647.06   | 3.66                           | 648.00   |

#### Notes:

<sup>\* =</sup> MW-2 is typically inaccessible due to staged equipment.

<sup>- =</sup> Depth is unknown



| Well ID | October 2015<br>DTW<br>(ft BTOC) | October 2015<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2016<br>DTW (ft BTOC) | April 2016<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2016<br>DTW<br>(ft BTOC) | October 2016<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | April 2017<br>DTW<br>(ft BTOC) | April 2017<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) | October 2017<br>DTW<br>(ft BTOC) | October 2017<br>Potentiometric<br>Surface Elev.<br>(ft AMSL) |
|---------|----------------------------------|--|-----------------------------|--|----------------------------------|--|--------------------------------|--|----------------------------------|--|
| MW-1    | 2.98                             | 647.78   | 2.82                        | 647.94   | 3.52                             | 647.24   | 2.92                           | 647.84   | 3.22                             | 647.54   |
| MW-2    | 13.00                            | 637.55   | 12.54                       | 638.01   | Not Gauged                       | Not Gauged   | 13.82                          | 636.73   | 13.38                            | 637.17   |
| MW-5    | 12.92                            | 638.73   | 10.60                       | 641.05   | 13.75                            | 637.90   | 10.49                          | 641.16   | 13.51                            | 638.14   |
| MW-6    | 10.30                            | 639.95   | 8.85                        | 641.40   | 10.21                            | 640.04   | 8.86                           | 641.39   | 10.20                            | 640.05   |
| MW-7    | 11.82                            | 638.20   | 10.51                       | 639.51   | 11.60                            | 638.42   | Not Gauged                     | Not Gauged   | 11.58                            | 638.44   |
| MW-9    | 10.70                            | 638.25   | 10.45                       | 638.50   | 10.84                            | 638.11   | 10.78                          | 638.17   | 10.90                            | 638.05   |
| MW-10   | 10.80                            | 638.66   | 9.92                        | 639.54   | 10.36                            | 639.10   | 10.31                          | 639.15   | 10.70                            | 638.76   |
| MW-11   | 8.55                             | 638.56   | 8.30                        | 638.81   | 8.71                             | 638.40   | 8.47                           | 638.64   | 8.34                             | 638.77   |
| MW-12   | 8.41                             | 638.49   | 8.24                        | 638.66   | 8.64                             | 638.26   | 8.43                           | 638.47   | 8.65                             | 638.25   |
| MW-13   | 11.76                            | 638.29   | 11.46                       | 638.59   | 11.82                            | 638.23   | 11.88                          | 638.17   | 11.93                            | 638.12   |
| MW-15   | 13.00                            | 638.88   | 12.88                       | 639.00   | 12.95                            | 638.93   | 13.13                          | 638.75   | 13.18                            | 638.70   |
| MW-16   | 5.25                             | 646.47   | 6.00                        | 645.72   | 5.52                             | 646.20   | 6.40                           | 645.32   | 15.50                            | 636.22   |
| MW-17   | 13.08                            | 638.68   | 13.05                       | 638.71   | 12.50                            | 639.26   | 12.15                          | 639.61   | 12.45                            | 639.31   |
| MW-19   | 13.03                            | 638.66   | 12.83                       | 638.86   | 13.00                            | 638.69   | 13.00                          | 638.69   | 13.60                            | 638.09   |
| MW-20   | 8.22                             | 638.54   | 8.40                        | 638.36   | 8.65                             | 638.11   | 8.60                           | 638.16   | 8.78                             | 637.98   |
| MW-21   | 8.86                             | 637.84   | 8.28                        | 638.42   | 8.61                             | 638.09   | 8.55                           | 638.15   | 8.70                             | 638.00   |
| MW-24   | 8.80                             | 638.21   | 8.52                        | 638.49   | 8.80                             | 638.21   | 8.75                           | 638.26   | 8.83                             | 638.18   |
| ESI-1   | 3.80                             | 647.86   | 3.55                        | 648.11   | 4.20                             | 647.46   | 3.78                           | 647.88   | 4.00                             | 647.66   |

#### Notes:

<sup>\* =</sup> MW-2 is typically inaccessible due to staged equipment.

<sup>- =</sup> Depth is unknown

## Table 2-1: Groundwater Analytical Results - Total PCBs (units in ppb or ug/L) National Grid Develor Avenue Service Center

Dewey Avenue Service Center Buffalo, New York



|               |                  |         |      |             | Well ID |       |       |       |       |
|---------------|------------------|---------|------|-------------|---------|-------|-------|-------|-------|
| Date          | NYSDEC Value (1) | MW-1    | MW-6 | MW-9        | MW-11   | MW-12 | MW-20 | MW-21 | MW-24 |
| October 2017  | 0.09             | ND      | ND   | ND          | ND      | ND    | ND    | ND    | ND    |
| April 2017    | 0.09             | 6.8 J   | ND   | 16.2        | ND      | ND    | ND    | ND    | ND    |
| October 2016  | 0.09             | ND      | ND   | 37.4        | ND      | ND    | ND    | ND    | ND    |
| April 2016    | 0.09             | 3.2     | ND   | 11          | ND      | ND    | ND    | ND    | ND    |
| October 2015  | 0.09             | 9.10    | ND   | 26          | ND      | ND    | 0.053 | ND    | ND    |
| April 2015    | 0.09             | 0.8     | ND   | 6.9         | ND      | ND    | ND    | ND    | ND    |
| October 2014  | 0.09             | 0.22    | ND   | 43          | ND      | ND    | ND    | ND    | ND    |
| April 2014    | 0.09             | 2.8     | ND   | 9.4         | ND      | ND    | ND    | ND    | ND    |
| October 2013  | 0.09             | 0.15    | ND   | 16.0        | 0.10    | ND    | ND    | ND    | ND    |
| April 2013    | 0.09             | 5.7     | ND   | 24.0        | ND      | ND    | ND    | ND    | ND    |
| October 2012  | 0.09             | 4.5     | 0.16 | 11.0        | ND      | ND    | ND    | ND    | 0.051 |
| April 2012    | 0.09             | 1.4     | ND   | 29.0        | ND      | ND    | ND    | ND    | ND    |
| October 2011  | 0.09             | 4.9     | ND   | 8.7         | ND      | ND    | ND    | ND    | ND    |
| April 2011    | 0.09             | 7.0     | ND   | 28.0        | ND      | ND    | ND    | ND    | ND    |
| October 2010  | 0.09             | 4.1     | ND   | 24.0        | ND      | ND    | ND    | ND    | ND    |
| April 2010    | 0.09             | 4.6     | ND   | 19.0        | ND      | ND    | ND    | ND    | ND    |
| October 2009  | 0.09             | 1.4 QSU | ND   | 15 QSU, D08 | ND      | ND    | ND    | ND    | ND    |
| April 2009    | 0.09             | 4.8     | 1.1  | ND          | ND      | ND    | ND    | ND    | ND    |
| October 2008  | 0.09             | 0.44    | ND   | 13          | 0.44    | ND    | ND    | ND    | ND    |
| April 2008    | 0.09             | 0.54    | ND   | 4.5         | ND      | 0.01  | ND    | ND    | ND    |
| October 2007  | 0.09             | 1.2     | ND   | ND          | ND      | ND    | ND    | ND    | ND    |
| April 2007    | 0.09             | 1.2     | ND   | 9.9         | ND      | ND    | ND    | ND    | ND    |
| November 2006 | 0.09             | ND      | ND   | ND          | ND      | ND    | ND    | ND    | ND    |
| June 2006     | 0.09             | 1.5     | ND   | ND          | ND      | ND    | ND    | ND    | ND    |
| November 2005 | 0.09             | 1.2     | ND   | 17          | ND      | ND    | ND    | ND    | ND    |
| April 2005    | 0.09             | 1       | ND   | 9.5         | ND      | ND    | ND    | ND    | ND    |
| November 2004 | 0.09             | 1.7 P   | ND   | 15          | ND      | ND    | ND    | ND    | ND    |
| March 2004    | 0.09             | 0.87 P  | ND   | 32.3 P      | ND      | ND    | ND    | ND    | ND    |
| October 2003  | 0.09             | 1.6     | ND   | 40.3 PJ     | ND      | ND    | ND    | ND    | ND    |
| December 2002 | 0.09             | 1.2     | ND   | 16          | ND      | ND    | ND    | ND    | ND    |
| June 2002     | 0.09             | 3.2 J   | ND   | 20 J        | ND      | ND    | ND    | ND    | ND    |
| October 2001  | 0.09             | 3.0 J   | ND   | 29 JN       | ND      | ND    | ND    | ND    | NS    |
| April 2001    | 0.09             | 3.4     | NS   | 6.3         | ND      | ND    | ND    | ND    | NS    |
| December 2000 | 0.09             | 2.9 JN  | NS   | 21 JN       | ND      | ND    | ND    | ND    | NS    |
| June 2000     | 0.09             | 2.9     | NS   | 10 J        | ND      | ND    | NS    | NS    | NS    |
| December 1999 | 0.09             | 3.0 J   | NS   | 21 J        | ND      | ND    | NS    | NS    | NS    |
| July 1999     | 0.09             | 5.9 JN  | NS   | 44 JN       | ND      | ND    | NS    | NS    | NS    |
| November 1998 | 0.09             | 3.6     | NS   | ND          | ND      | ND    | NS    | NS    | NS    |
| May 1998      | 0.09             | 1.2     | NS   | 6.7         | NS      | NS    | NS    | NS    | NS    |

#### Notes:

(1) NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) "Ambient Water Quality Standards and Guidance Values and Ground Water Effluent Limitations," April 2000, Class GA Ground Water Standards and Guidance Values.

#### Laboratory Qualifier Notes:

- J = Analyte was positively identified; however, the associated numerical value is an estimated concentration only.
- JN = The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
- P = Greater than 25% difference for detected concentration between two GC columns.

QSU = Sulfur (EPA 3660) clean-up performed on extract.

D08 = Dilution required due to high concentration of target analyte(s).

ND = Not Detected above detection limit.

NS = Not Sampled.

Units in parts per billion (ppb) or micrograms per liter (ug/L).

Bolded numbers indicate Guidance Value Exceedences

## Appendix A

**Groundwater Monitoring Field Data** 



National Grid Dewey Avenue Service Center 144 Kensington Avenue Buffalo, New York

|          | SHUMB                  |
|----------|------------------------|
|          | Fat Serpi-Annual Event |
| Date:    | 4/18/1/                |
| Technici | ian(s):                |
|          |                        |

|       | Well ID. | Sample?         | Well Size | DTP        | DTW   | DTB.  | Comments  |
|-------|----------|-----------------|-----------|------------|-------|-------|---|
|       | ESI-1    | VOC's Fall only | 4"        |            | 378   | 21.50 | Product-Bearing Well. Sorbent Sock Change Required. |
| 1240  | MW-1     | yes             | 4"        |            | 292   | 29.90 | ·   |
|       | MW-2     | no              | 4"        |            | 1382  | 44,17 |   |
|       | MW-5     | no              | 2"        |            | 1049  | 21.40 |   |
| 1320  | MW-6     | yes             | 2"        |            | 886   | 21.05 | Collect MS/DMS Samples.                             |
|       | MW-7     | no              | 2"        |            | ·     | 21.30 |   |
| 1120  | MW-9     | yes             | 2"        |            | 1078  | 22.05 |   |
|       | MW-10    | no              | 2"        |            | 1031  | 24.25 |   |
| 1((0) | MW-11    | yes             | 2"        |            | 847   | 20.22 |   |
| 030   | MW-12    | yes             | 2"        |            | 843   | 19.55 | Collect Field Duplicate Sample.                     |
| ·     | MW-13    | no              | 2"        |            | 11.88 | 26.25 |   |
|       | - MW-15  | no              | 2"        |            | 1313  | 23.80 |   |
|       | MW-16    | VOC's Fall only | 2"        |            | 640   | 20.36 | Product-Bearing Well.                               |
|       | MW-17    | no              | 2" .      |            | 1215  | 20.60 |   |
|       | MW-19    | no              | 2"        |            | 13w:  | 24.00 |   |
| 900   | MW-20    | yes             | 2"        | <b>Q60</b> | 860   | 22.60 | Well in roadway. Lane closure required.             |
| 940   | MW-21    | yes             | 2"        |            | 855   | 21.85 | Well in roadway. Lane closure required.             |
| 720   | MW-24    | yes             | 2"        |            | 875   | 24.25 | Well in roadway. Lane closure required.             |
|       | MW-25    | no              | 2"        |            | 688   | 15.36 |   |

|  |  |                                       |   |  | 51  | 4/18/17   | 7  |   |
|--|--|---------------------------------------|---|--|---|---|--|---|
| Sampling Per   |  |                                       |   | ······································   | Date:   |   | 4480   | ······································            |
| Job Number:  | 06-02882   | )                                     |   |  | Weathe  |   | 1  | - D. S. 150004                                    |
| Well Id.   | MW-1   |                                       |   |  | Time In   | : 1210  | Time Out:  | <u> </u>  |
|  |  |                                       |   |  |   |   |  |   |
| Well Inf   | ormation   | ation .                               |   |  |   |   | <b>.</b> .   |   |
|  |  |                                       | TOC   | Other  | Well Ty   | •   | <del>-  </del>   | tick-Up   |
| Depth to Wat   |  | (feet)                                | 2.92  |  | Well Lo   |   | Yes  | No No   |
| Depth to Bott  |  | (feet)                                | 29.90   |  | Weasurii<br>Well Ma                                 | ng Point Marked:<br>aterial: PVC  | Yes X Oth  | <del></del>                                       |
| Depth to Prod  |  | (feet)                                | 26.5%   |  | Well Dia  |   | 2" Oth   |   |
| Length of Wa   |  |                                       | 11.80   |  | Comme   |   | LJ - LJ ~ "'   |   |
| Three Well V   |  | (gal) (gal)                           | 5340  |  | OOMANO  |   |  |   |
| Tillee vveli v   | Olumes.  | (941)                                 | 33-76   |  | Har-Marine  |   |  |   |
| <u> </u>   |  |                                       |   |  |   |   |  |   |
| Puraina  | nformation   | · · · · · · · · · · · · · · · · · · · |   |  |   |   |  |   |
| r arging n   | monsion  | -                                     |   |  |   |   | Conversion F   | actors  |
| Purging Meth   | od:  | Bailei                                | r Peristaltio   | Grundfos P   | ump oth   | ner gal/ft.   | 1" ID 2" ID  | 4" ID 6" ID                                       |
| Tubing/Bailer  |  | Teflor                                |   | Semman)  | <del></del>   | ner of  |  |   |
| Sampling Me  |  | Baile                                 |   | k  | jámmun.   | ner water   | 0.04 0.16  | 0.66 1.47   |
| Average Pum  |  | (ml/min)                              | 250   |  | · <u> </u>  | 1 gallo   | n=3.785L=3785m   | L=1337cu. feet                                    |
| Duration of P  | <del></del>  | (min)                                 | 30  |  |   |   | ,  |   |
| Total Volume   |  | (gal)                                 | 2.00  | id well go dry?  | Yes   | vo <b>[</b> Ø]  |  |   |
| VSI 6020 or I  | Horiba II-52 W   | /ater Quality M                       |   | No   |   |   |  |   |
| 1310920011   | TOTIDA U-32 W  | rater Quality IVI                     | etel Ost Tes  | <u>'''''                                </u>                                       |   |   |  |   |
| Ti   |  |                                       |   |  |   |   |  |   |
|  | עודת   | Amount                                | Temp  | nH   | ORP   | Conductivity  | Turbidity  | DO I  |
| Time   | DTW<br>(feet)  | Amount                                | Temp<br>°C  | pH<br>(S.U.)   | ORP<br>(mV)   | Conductivity (mS/cm)  | Turbidity<br>(NTU)   | DO<br>(mg/L)                                      |
|  | (feet)   | Amount purged (gal)                   | °C  | (S.U.)   | (mV)  | (mS/cm)   | (NTU)  | (mg/L)  |
| [970   | (feet)<br>3.05   | 1                                     | 14.88   | 1 '  | (mV)  | (mS/cm)   | (NTU)<br><b>Y2-3</b>   |   |
| 13w  | (feet)<br>3.05<br>3.06   | 1                                     | 14.88<br>14.09  | (S.U.)   | (mV)  | (mS/cm)   | (NTU)  | (mg/L)<br>/.67<br>O                               |
| [970   | (feet)<br>3.05<br>3.06<br>3.06   | 1                                     | 14.88<br>14.09<br>18.86   | (S.U.)<br>771<br>770   | (mV)<br>-90<br>-100                                 | (mS/cm)<br>/9.9<br>20.2<br>20.5   | (NTU)<br>Y2.3<br>27.1<br>17.3<br>15.4                          | (mg/L)<br>/.67<br>O<br>O                          |
| 1770   | (feet)<br>3.05<br>3.06<br>3.06<br>3.06                                       | 1                                     | 14.88<br>14.69<br>18.86<br>13.06  | (S.U.)<br>7.77<br>7.71<br>7.70<br>7.69<br>7.69                                     | (mV)<br>-90<br>-100                                 | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L)<br>/.67<br>O                               |
| 1770<br>1770<br>1770<br>1770                                   | (feet)<br>3.05<br>3.06<br>2.06<br>3.06                                       | 1                                     | 14.88<br>14.09<br>18.86<br>13.06  | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-114                 | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770   | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.69<br>18.86<br>13.06  | (S.U.)<br>7.77<br>7.71<br>7.70<br>7.69<br>7.69                                     | (mV)<br>-90<br>-100<br>-112<br>-115                 | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7   | (NTU)<br>Y2.3<br>27.1<br>17.3<br>15.4                          | (mg/L)<br>/.67<br>O<br>O<br>O                     |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>2.06<br>3.06                                       | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet)<br>3.05<br>3.06<br>3.06<br>3.06<br>3.06                               | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
| 1770<br>1770<br>1770<br>1770<br>1770                           | (feet) 3.05 3.06 3.06 3.06 3.06 3.06   | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)<br>Y2-3<br>22-1<br>17-3<br>15-4<br>/S-2                  | (mg/L) /.67 0 0 0 0                               |
|  | (feet) 3.05 3.06 3.06 3.06 3.06 3.06   | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-115<br>-121         | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8   | (NTU)  Y2-3  22.1  17-3  15.4  15.0  19.3                      | (mg/L) /.67 0 0 0 0 0                             |
|  | (feet) 3.05 3.06 3.06 3.06 3.06 3.06   | 1                                     | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>12.81                            | (S.U.)<br>271<br>770<br>769<br>769<br>769  | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm)<br>/9.6<br>20.5<br>20.7<br>20.8<br>20.9<br>20.9   | (NTU)  Y23 22.1  17.3  15.9  /S.2  /S.2  /Y.3                  | (mg/L) /.67 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Sampling Inf   | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06                                    | purged (gal)                          | 14.08<br>14.09<br>18.86<br>13.06<br>12.98<br>12.90<br>12.81                   | (S.U.)  7.77  7.70  7.69  7.69  7.69   | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm)<br>/9.9<br>20.2<br>20.5<br>20.7<br>20.8<br>20.9<br>20.9                                 | (NTU)  Y2-3  22.1  17-3  15.4  15.0  19.3                      | (mg/L) /.67 0 0 0 0 0                             |
| Sampling Inf   | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06 Method 8082 Method 8260            | PCB's TCL VOC's                       | 14.98<br>14.09<br>18.86<br>13.06<br>12.98<br>(2.90<br>12.81                   | (S.U.)  770  769  769  769  769  769  769  Retection limit of Ong Naphthalene      | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm)<br>/9.6<br>20.2<br>20.5<br>20.7<br>20.8<br>20.9<br>20.9<br>20.9                         | (NTU)  Y2-3  22.1  17-3  15.7  /S.2  /S.0  /9.3  Yes  Yes      | (mg/L) /.67 0 0 0 0 0 0 No                        |
| Sampling Inf EPA SW-846 N EPA SW-846 N Sample ID:              | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06 Method 8082 Method 8260  MW-1-0417 | PCB's<br>TCL VOC's                    | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>2.90<br>12.81<br>Low de Includi  | (S.U.)  271  770  769  769  769  769  Petection limit of 0 and Naphthalene  Yes No | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm) /9.6 20.2 20.5 20.7 20.8 20.9 20.9 20.9 20.9 20.9                                       | (NTU)  Y2-3  27-1  17-3  15-9  /5-2  /5-0  /4-3  Yes  Yes      | (mg/L) /-67 O O O No No Courier                   |
| Sampling Inf   | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06 Method 8082 Method 8260            | PCB's<br>TCL VOC's                    | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>(2.90<br>12.81<br>Low de Includi | (S.U.)  770  769  769  769  769  769  769  Retection limit of Ong Naphthalene      | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm) /9.6 20.2 20.5 20.7 20.8 20.9 20.9 20.9 20.9 20.9                                       | (NTU)  Y2-3  22.1  17-3  15.7  /S.2  /S.0  /9.3  Yes  Yes      | (mg/L) /.67 0 0 0 0 0 0 No                        |
| Sampling Inf EPA SW-846 A EPA SW-846 A Sample ID: Sample Time: | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06 Method 8082 Method 8260  MW-1-0417 | PCB's TCL VOC's                       | 'C  | etection limit of 0 ng Naphthalene  Yes No Yes No                                  | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm) /9.6 20.2 20.5 20.7 20.8 20.9 20.9 20.9 20.9 20.9                                       | (NTU)  Y2-3  27-1  17-3  15-9  /5-2  /5-0  /4-3  Yes  Yes      | (mg/L) /.67 O O O O No No V PS UPS                |
| Sampling Inf EPA SW-846 N EPA SW-846 N Sample ID:              | (feet) 3.05 3.06 3.06 3.06 3.06 3.06 3.06 Method 8082 Method 8260  MW-1-0417 | PCB's TCL VOC's                       | 14.88<br>14.09<br>18.86<br>13.06<br>12.98<br>2.90<br>12.81<br>Low de Includi  | etection limit of 0 ng Naphthalene  Yes No Yes No                                  | (mV)<br>-90<br>-100<br>-112<br>-118<br>-121<br>-121 | (mS/cm)<br>/9.6<br>20.2<br>20.5<br>20.7<br>20.8<br>20.9<br>20.9<br>20.9<br>20.9<br>20.9<br>20.9 | (NTU)  Y2-3  22.1  17-3  15.9  /\$.2  /\$.0  /9.3  Pace Fed-Ex | (mg/L) /.67 O O O O No No No alytical             |

| Sampling Personnel:   |  | Date:  | 4/18/17   | ~~~   |  |
|---|--|--|---|---|--|
| Job Number: 06-02882  |  | Weather:                                       | SUNTY   | 700   |  |
| Well Id. MW-6   |  | Time In:                                       | 1250  | Time Out:   | 1335   |
|   |  |  |   |   |  |
| Well Information  |  |  |   | ~   |  |
|   | TOC Other  | Well Type                                      |   | K3  | Stick-Up   |
| Depth to Water: (feet)  | 886  | Well Locke                                     |   | Yes   | No   |
| Depth to Bottom: (feet)   | 21.05  | -  | Point Marked:   | Yes X<br>SS Oth   | No   |
| Depth to Product: (feet)  | 12.48  | Well Mate                                      |   | 2" Oth  |  |
| Length of Water Column: (feet)  Volume of Water in Well: (gal)  | 12.19  | Comments                                       |   |   |  |
| Three Well Volumes: (gal)   | 581  |  | -   |   |  |
| Title VVen Volation. (gan)  |  |  |   |   |  |
|   |  |  |   |   |  |
| Purging Information   |  |  |   |   |  |
|   |  | <u></u>  |   | Conversion F  |  |
| Purging Method: Bailer  |  | ·  | gal/ft.   | 1" ID 2" ID   | 4" ID 6" ID  |
| Tubing/Bailer Material: Teflon  | <u></u>  | F  | of  | 001010  |  |
| Sampling Method: Bailer   |  | ump other                                      |   | 0.04 0.16   | 0.66   1.47  |
| } <del>////////////////////////////////////</del>   | 200  |  | 1 gallo   | n=3.785L=3785m  | L=133/cu. feet                                     |
| Duration of Pumping: (min)  | Did well go dry?   | Yes No   |   |   |  |
| Total Volume Removed: (gal)   |  | resINO   | <u> </u>  |   |  |
| YSI 6920 or Horiba U-52 Water Quality Mo  | eter Us: Yes No  |  |   |   |  |
|   |  |  |   |   |  |
|   |  |  |   |   |  |
| Time DTW Amount   | Temp pH  | ORP  | Conductivity  | Turbidity   | DO (ma/l)  |
| (feet) purged (gal)   | °C (S.U.)  | (mV)   | (mS/cm)   | (NTU)   | (mg/L)   |
| (feet) purged (gal)   | °C (S.U.) /594 7.73  | (mV)<br><b>-84</b>                             | (mS/cm)<br><b>/7,</b> 9   | (NTU)<br>/8.5   | (mg/L)<br><b>1.47</b>                              |
| (feet) purged (gal)  120 9.32  121 9.32   | 7594 7.73<br>7517 7.55   | (mV)<br>-84<br>-74                             | (mS/cm)<br>/%<br>/8.0   | (NTU)<br>/8.5<br>/2.2   | (mg/L)<br>1.47<br>0                                |
| (feet) purged (gal)  USO 9:32  UST 9:32  13:00 9:32   | 75 (S.U.) 7594 7.73 75.17 7.55 74.72 7.55  | (mV)<br>-84<br>-74<br>-78                      | (mS/cm)<br>/7.9<br>/8.0<br>/8.2   | (NTU)<br>/8.5<br>/2.2<br>/0.6                                 | (mg/L)<br>1.47<br>O                                |
| (feet) purged (gal)  1300 9:32  1300 9:32  1300 9:32  | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.54 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77               | (mS/cm)<br>/79<br>/8.0<br>/8.2<br>/8.3  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1                          | (mg/L)<br>1.47<br>0                                |
| (feet) purged (gal)    1300   | (S.U.)  /594 7.73  /5.17 7.57  /4.72 2.53  /4.34 7.53  /4.34 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/79<br>/8.0<br>/8.2<br>/8.3  | (NTU)<br>/8.C<br>/2.2<br>/0.6<br>9.1                          | (mg/L)<br>1.47<br>O                                |
| (feet) purged (gal)   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77               | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1                          | (mg/L)<br>1.47<br>0<br>0                           |
| (feet) purged (gal)    1300   | (S.U.)  /594 7.73  /5.17 7.57  /4.72 2.53  /4.34 7.53  /4.34 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/79<br>/8.0<br>/8.2<br>/8.3  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>147<br>0<br>0<br>0                       |
| (feet) purged (gal)   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>147<br>0<br>0<br>0                       |
| (feet) purged (gal)   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L) 7.47 0 0 0                                  |
| (feet) purged (gal)  UND 9:32  UNT 9:32   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>147<br>0<br>0<br>0                       |
| (feet) purged (gal)   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>147<br>0<br>0                            |
| (feet) purged (gal)  USO 9.32  USO 9.32  USO 9.32  USO 9.32  USO 9.32  USO 9.32  USO 9.34   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>1.4.7<br>O<br>O<br>O                     |
| (feet) purged (gal)  UND 9:32  UNT 9:32   | 7594 7.73<br>75.17 7.55<br>74.72 7.53<br>14.34 7.53<br>14.34 7.53<br>14.34 7.53<br>14.35 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76        | (mS/cm)<br>/19<br>/8.0<br>/8.2<br>/8.3<br>/8.4  | (NTU)<br>/8.5<br>/2.2<br>/0.6<br>9.1<br>7.9<br>2.1            | (mg/L)<br>147<br>0<br>0                            |
| (feet) purged (gal)  2,70   | C (S.U.)  /594 7.73  /5.17 7.55  /4.72 7.53  /4.37 7.53  /4.25 7.53  /4.26 7.53  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76<br>-76 | (mS/cm)<br>/79<br>/8.0<br>/8.2<br>/8.3<br>/8.4<br>(8.4  | (NTU)<br>/8.C<br>/2:2<br>/0.6<br>9.1<br>7.1<br>6.3            | (mg/L) 1.4.7 0 0 0 0 0                             |
| (feet)   purged (gal)   | C (S.U.)  /594 7.73  /5.17 7.57  /4.72 2.53  /4.37 7.53  /4.37 7.53  /4.37 7.53  /4.37 7.53  /4.37 7.53  Low detection limit of 0  | (mV)<br>-84<br>-74<br>-78<br>-77<br>-76<br>-76 | (mS/cm)<br>/79<br>/8.0<br>/8.2<br>/8.3<br>/8.4<br>(8.4<br>(8.4)   | (NTU)<br>/8.C<br>/2.2<br>/0.6<br>9.1<br>7.1<br>6.3            | (mg/L) 1×17 00 00 00 00 00 00 00 00 00 00 00 00 00 |
| (feet)   purged (gal)   | C (S.U.)  /594 7.73  /5.17 7.57  /4.72 2.53  /4.37 7.53  /4.35 7.53  /4.35 7.53  /4.35 7.53  Low detection limit of 0 Including Naphthalene                                      | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm)<br>/7.9<br>/8.0<br>/8.2<br>/8.4<br>/8.4<br>/8.4<br>/8.4<br>/8.4<br>6 - 1 liter ambel<br>2 - 40 mL vials | (NTU)<br>/8.C<br>/2:2<br>/0.6<br>9.1<br>7.1<br>6.3            | (mg/L) 1.4.7 0 0 0 0 0                             |
| (feet)   purged (gal)   | C (S.U.)  /594 7.73  /5.17 7.53  /4.72 7.53  /4.37 7.53  /4.35 7.53  /4.25 7.53  /4.25 7.53  IM.0 9 7.53  Low detection limit of 0 Including Naphthalene "MW-6-Duplicate Matrix" | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm)<br>/7.9<br>/8.0<br>/8.2<br>/8.4<br>/8.4<br>/8.4<br>/8.4<br>/8.4<br>/8.4<br>/8.4                         | (NTU) /8.C /2.1 /0.6 9.1 7.1 6.3 Yes                          | (mg/L) 1.4.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| (feet)   purged (gal)   | Low detection limit of 0 Including Naphthalene  "IMW-6-Duplicate Matrix plicate? Yes No X  | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm) /// /// /// /// /// /// /// /// /// /   | (NTU)  /8.5  /2.2  /0.6  9.1  7.9  7.1  6.3  Yes Yes          | (mg/L)  1.47  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  |
| Complete   Complete | Low detection limit of 0 Including Naphthalene  "IMW-6-Duplicate Matrix plicate? Yes No  | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm) /// /// /// /// /// /// /// /// /// /   | (NTU)  /8.C  /2.1  /0.6  9.1  7.1  6.3  Yes  Yes  Yes  Fed-Ex | (mg/L) 1.47 0 0 0 0 0 No No VPS                    |
| (feet)   purged (gal)   | Low detection limit of 0 Including Naphthalene  "IMW-6-Duplicate Matrix plicate? Yes No  | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm) /// /// /// /// /// /// /// /// /// /   | Yes PACE An:  | (mg/L) 1.4.7 0 0 0 0 0 No No No alytical           |
| Complete   Complete | Low detection limit of 0 Including Naphthalene  "IMW-6-Duplicate Matrix plicate? Yes No X  | (mV) -84 -74 -78 -77 -76 -76 -76               | (mS/cm) /// /// /// /// /// /// /// /// /// /   | (NTU)  /8.C  /2.1  /0.6  9.1  7.1  6.3  Yes  Yes  Yes  Fed-Ex | (mg/L) 1.4.7 0 0 0 0 0 No No No alytical           |

|   |   |                                |  |  | <u> </u>   | 4/18/17   |  |  |
|---|---|--------------------------------|--|--|--|---|--|--|
| Sampling Perso  |   |                                |  |  | Date:  |   |  |  |
| Job Number:   | 06-02882  |                                |  |  | Weather:   | Sunac   |  | 1 2 . A.   |
| Well Id. 🛮 🖡  | ViW-9   |                                |  |  | Time In:   | 1120  | Time Out:  | 1102   |
|   |   |                                |  |  |  |   |  | 1  |
| Well Inforn   | nation  |                                |  |  |  |   |  |  |
|   |   |                                | TOC  | Other  | Well Type  |   | <del>- 3</del>                                       | ick-Up   |
| Depth to Water:   |   | (feet)                         | 1078   |  | Well Lock  |   | Yes  | No —   |
| Depth to Bottom   |   | (feet)                         | 22.05  |  | -  | Point Marked:   | Yes X<br>SS Othe                                     | No.  |
| Depth to Produc   |   | (feet)                         | 11 0 0   |  | Well Mate<br>Well Dian                             | ·   | 2" Othe  | ***************************************          |
| Length of Water   |   | (feet)                         | 11.27  |  | Comment  | •   |  | 31   |
| Volume of Wate  |   | (gal)                          | 1.80   |  | Commen   | .S.   |  |  |
| Three Well Volu   | mes:  | (gal)                          | 570  |  |  |   |  |  |
|   |   |                                |  |  |  |   |  |  |
|   |   |                                |  |  |  |   |  |  |
| Purging Info  | rmation   | ı                              |  |  |  |   | Conversion Fa  | actors   |
|   |   |                                |  | M  |  |   |  | 4" ID 6" ID                                      |
| Purging Method  | ***************************************   | Bailer                         | <del></del>  | <u></u>  | <del> </del>                                       |   | 1 10 2 10  | 4 10 0 10  |
| Tubing/Bailer Ma  | ····  | Teflon                         | <del></del>  |  | <del></del>  |   | 0.04 0.16  | 0.66 1.47  |
| Sampling Metho  |   | Bailer                         | <u>L</u>   | Grundros P   | ump other  |   | n=3.785L=3785ml                                      |  |
| Average Pumpir  |   |                                | 200  |  |  | 1 gand  | 11-3.763L-3763III                                    |  |
| Duration of Pum   |   | (min)                          | <u> 30                                   </u>  | id well go dry?                                      | Yes No   |   |  |  |
| Total Volume Re   | emovea:   | (gal)                          |  |  | resINC   |   |  |  |
| YSI 6920 or Hor   | iba U-52 Wa   | ater Quality Me                | eter Us Yes  | No.  |  |   |  |  |
|   |   |                                |  |  |  |   |  |  |
| Time  | DTW   | Amount                         | Temp   | рН   | ORP  | Conductivity  | Turbidity  | DO   |
|   |   |                                | 1 '  | (0.11)   |  | 1 ( 0 ()  | /KITCLI\   |  |
| us I  | (feet)  | purged (gal)                   | ) °C   | (S.U.)   | (mV)   | (mS/cm)   | (NTU)  | (mg/L)   |
| 1/120   | (feet)  | purged (gal)                   | /3.9c  | 7-49   | -76  | 19.1  | 10.6   | (mg/L)<br>222                                    |
| <del>                                   </del>                                | 1159  | purged (gal)                   |  |  |  | 19.1  | 10.6   | 212  |
| 1125  |   | purged (gal)                   | 13.95  | 7.49   | -76  | 19.1  | 10.6   | 212  |
| 1(30  | (159<br> 1.80<br> 1.82<br> 1.82   | purged (gal)                   | 13.95<br>1405<br>13.96   | 7.49<br>7.17<br>7.37<br>7.38                         | -76<br>-97<br>-111<br>-118                         | 19.1<br>19.3<br>19.4  | 10.6<br>4.4<br>2.9                                   | 212  |
| 1125  | (159<br> 1.80<br> 1.82<br> 1.82   | purged (gal)                   | 13.95  | 7.49<br>7.17<br>7.37                                 | -76<br>-97<br>-111                                 | 19.1<br>19.3<br>19.1<br>19.6  | 10.6   | 212<br>0<br>0<br>0                               |
| ((2K<br>1(30<br>1(31<br>1(40  | (159<br> 1.80<br> 1.82<br> 1.82<br> 1.82  | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38                         | -76<br>-97<br>-111<br>-118                         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38                 | -76<br>-97<br>-11\<br>-118<br>-123                 | 19.1<br>19.3<br>19.1<br>19.6  | 10.6   | 212<br>0<br>0<br>0                               |
| ((2x<br>((30<br>((31<br>((40  | (159<br> 1.80<br> 1.82<br> 1.82<br> 1.82  | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.4  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br>11.82<br>11.82<br>11.82<br>11.82   | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2x<br>((3d<br>((3f<br>((40<br>((4f<br>((4f                                  | 11.80<br> 1.80<br> 1.82<br> 1.82<br> 1.82<br> 1.82  | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>1(30<br>1(31<br>1(40<br>1(46  | 11.80<br> 1.80<br> 1.82<br> 1.82<br> 1.82<br> 1.82  | purged (gal)                   | /3.95<br>/3.96<br>/405   | 7.49<br>7.17<br>7.37<br>7.38<br>7.38<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125         | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.6                     | 222  |
| ((2K<br>((3d<br>((3f<br>((4f<br>((4f<br>((70)                                 | 59<br> 1.80<br> 1.82<br> 1.82<br> 1.82<br> 1.82<br> 1.82  |                                | 13.95<br>13.95<br>1405<br>1410<br>1417<br>14.21  | 7.49<br>7.37<br>7.38<br>7.38<br>7.39<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.1<br>19.6  | 10.6<br>4.4<br>2.9<br>1.3<br>1.8<br>,2               | 222  |
| Sampling Inform   | //.80<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82   | PCB's                          | /3.95<br>/3.95<br>/405<br>/400<br>/4.07<br>/4.21   | 7.49<br>7.37<br>7.38<br>7.38<br>7.39<br>7.31<br>7.35 | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.6<br>19.5<br>19.5<br>19.5  | 10.6<br>4.4<br>2.9<br>1.3<br>1.8<br>,2               | 222  |
| I(3d I(3d I(4d I(4d I(4d I(4d I(4d I(4d I(4d I(4                              | //.80<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82   |                                | /3.95<br>/3.95<br>/405<br>/400<br>/4.07<br>/4.21   | 7.49<br>7.37<br>7.38<br>7.38<br>7.39<br>7.39         | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.6<br>19.5<br>19.5  | /0.6<br>Y.Y<br>2.9<br>.1.3<br>/.8<br>.2              | 222<br>0<br>0<br>0<br>0<br>0                     |
| Sampling Information  EPA SW-846 Met  EPA SW-846 Met                          | // 9<br>// 80<br>// 82<br>// 83<br>// 8<br>// 8   | PCB's<br>TCL VOC's             | /3.95<br>/3.95<br>/405<br>/400<br>/4.17<br>/4.21<br>Low de                                 | 7.49<br>7.37<br>7.38<br>7.38<br>7.39<br>7.39<br>7.39 | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.6<br>19.5<br>19.5<br>19.5<br>19.5<br>2 - 1 liter ambe<br>2 - 40 mL vials             | /0.6<br>Y.Y<br>2.9<br>1.3<br>1.8<br>.2<br>Yes<br>Yes | 222<br>0<br>0<br>0<br>0<br>0                     |
| Sampling Information  EPA SW-846 Met EPA SW-846 Met Sample ID: M              | //.80<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82     | PCB's<br>TCL VOC's             | /3.96<br>/3.96<br>/405<br>/400<br>/4.70<br>/4.71<br>Low de Includir                        | 7.49 7.37 7.38 7.38 7.39 7.31 7.35                   | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.6<br>19.5<br>19.5<br>19.5<br>19.5<br>2 - 1 liter ambe<br>2 - 40 mL vials<br>Shipped: | /0.6<br>Y.Y<br>2.9<br>1.3<br>1.8<br>.2<br>Yes<br>Yes | 222<br>0<br>0<br>0<br>0                          |
| Sampling Information  EPA SW-846 Met EPA SW-846 Met Sample ID: M Sample Time: | //.80<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.82<br>//.83<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84<br>//.84     | PCB's<br>TCL VOC's             | /3.96<br>/3.96<br>/405<br>/400<br>/4.70<br>/4.71<br>Low de Includir                        | 7.49<br>7.37<br>7.38<br>7.38<br>7.39<br>7.39<br>7.39 | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 2 - 1 liter ambe<br>2 - 40 mL vials   | Yes Yes Fed-Ex                                       | 222<br>0<br>0<br>0<br>0<br>No<br>No<br>No<br>UPS |
| Sampling Information  EPA SW-846 Met EPA SW-846 Met Sample ID: M              | // 9<br>// 80<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 83<br>// 83<br>/ | PCB's<br>TCL VOC's<br>Du<br>MS | /3.95<br>/3.95<br>/4/05<br>/4/0<br>/4/17<br>/4/21<br>Low de Includir<br>plicate?<br>S/DMS? | 7.49 7.37 7.38 7.38 7.39 7.31 7.35                   | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 19.1<br>19.3<br>19.6<br>19.5<br>19.5<br>19.5<br>19.5<br>2 - 1 liter ambe<br>2 - 40 mL vials<br>Shipped: | Yes Yes PACE Ana                                     | No No Version UPS                                |
| Sampling Information  EPA SW-846 Met EPA SW-846 Met Sample ID: M Sample Time: | // 9<br>// 80<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 82<br>// 83<br>// 83<br>/ | PCB's<br>TCL VOC's             | /3.95<br>/3.95<br>/4/05<br>/4/0<br>/4/17<br>/4/21<br>Low de Includir<br>plicate?<br>S/DMS? | 7.49 7.37 7.38 7.38 7.39 7.31 7.35                   | -76<br>-97<br>-111<br>-118<br>-123<br>-125<br>-129 | 2 - 1 liter ambe<br>2 - 40 mL vials   | Yes Yes Fed-Ex                                       | No No Version UPS                                |

| Caratina Domonnol   |                        |  |  | Date:                                    | 4/18/,7  |   |  |
|---|------------------------|--|--|--|--|---|--|
| Sampling Personnel:  Job Number: 06-02882   |                        |  |  | Weather:                                 | Sunay  | UØ.   |  |
|   |                        |  | <del></del>  | ***************************************  |  | Time Out:   | 1115   |
| Well Id. MW-11  |                        |  |  | Time In:                                 | <u> </u>   | HITIE Out.  | / /   9  |
| Well Information  |                        |  |  |  |  | <u></u>   |  |
| vveii intormation   |                        | TOC  | Other  | Well Type                                | · Flus   | hmount X S  | Stick-Up   |
| Depth to Water:   | (feet)                 | 847  | Other  | Well Lock                                |  | Yes   | No.  |
| Depth to Bottom:  | (feet)                 | 20.22  |  |  | Point Marked:  | Yes   | No   |
| Depth to Product:   | (feet)                 |  |  | Well Mate                                |  | ⊠ss oth   |  |
| Length of Water Column:   |                        | 1.75   |  | Well Diam                                |  | 2" Oth  |  |
| Volume of Water in Well:  | (gal)                  | 488  |  | Comment                                  | ts:  |   |  |
| Three Well Volumes:   | (gal)                  | Col  |  |  |  | ·   |  |
|   |                        |  |  | ·····                                    |  |   |  |
|   |                        |  |  |  |  |   |  |
| Purging Information   |                        |  |  |  |  |   |  |
|   |                        | <del></del>  | K-71   | <b>г</b>                                 |  | Conversion F  |  |
| Purging Method:   | Bailer                 |  | K  | K  | [90","   | 1" ID 2" ID   | 4" ID 6" ID  |
| Tubing/Bailer Material:   | Teflon                 | Stainless St.  | <del></del>  | F  |  | 0.04 0.16   | 0.66 1.47  |
| Sampling Method:  | Bailer                 | Louise   | Grundfos Pu  | imp other                                | <u> </u>   | 0.04 [ 0.16<br>n=3.785L=3785m   | <u> </u>   |
| Average Pumping Rate:   |                        | 200<br>30  |  |  | 1 yain   | N=3./00L-3700.,   | IL=13370u. ieet  |
| Duration of Pumping: Total Volume Removed:  | (min)                  |  | id well go dry?  | Yes No                                   |  |   |  |
|   |                        |  |  | 169                                      | Leri   |   | į  |
| YSI 6920 or Horiba U-52 Wa  | ater Quality Me        | eter Us Yes  | No □   |  |  |   |  |
|   |                        | ***************************************  |  |  |  |   |  |
|   |                        |  |  |  |  |   | · · · · · · · · · · · · · · · · · · ·  |
| Time DTW  | Amount                 | Temp   | рН   | ORP                                      | Conductivity   | Turbidity   | DO   |
| (feet)  | Amount<br>purged (gal) | °C   | (S.U.)   | (mV)                                     | (mS/cm)  | (NTU)   | (mg/L)   |
| (feet) (feet) (クリング (イング (イング (イング (イング (イング (イング (イング (イ   | i                      | °C<br> 2.03  | (S.U.)<br><b>8-0</b> 8   | (mV)                                     | 1  | (NTU)<br><b>/(.)</b> /  | (mg/L)   |
| (feet)<br>640 924<br>641 9-61   | i                      | °C   | (S.U.)<br><b>8-03</b><br><b>8.13</b>   | (mV)                                     | (mS/cm)<br>13.4<br>/4./  | (NTU)<br>11.8<br>7.2  | (mg/L)<br>6-8 (<br>3.22  |
| (feet)  640 925  640 9-61  600 9.14   | i                      | 12.03<br>/1.77<br>/1.63  | (S.U.)<br><b>8-0</b> 2<br><b>8.00</b>  | (mV)                                     | (mS/cm)<br>13.4<br>14.1  | (NTU)  16.8  7.2  6.3   | (mg/L)<br>6.4(<br>3.22<br>2.26   |
| (feet)  1040 9.75  (041 9.61  (050 9.74  (055 9.89  | i                      | 12.03<br>/1.77<br>11.63<br>11.52   | (S.U.)<br><b>8-0</b> 2<br><b>8.00</b><br><b>7.98</b>                                 | (mV)<br>39<br>60                         | (mS/cm)<br>13.4<br>/4.1<br>/4.3<br>/4.5  | (NTU)  11.8  7.2  6.3   | (mg/L)<br>6-8 (<br>3.22  |
| (feet)  640 925  645 9-61  650 9.74  655 9.89  100 9.99   | i                      | 12.03<br>/1.77<br>/1.63<br>(1.52<br>/1. 49   | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU)  11.8  7.2  6.3  7.7  3.9   | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>/4.1<br>/4.3<br>/4.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.4(<br>3.22<br>2.26   |
| (feet)  640 925  645 9-61  650 9.74  655 9.89  100 9.99   | i                      | 12.03<br>/1.77<br>/1.63<br>(1.52<br>/1. 49   | (S.U.)<br><b>8-0</b> 2<br><b>8.00</b><br><b>7.98</b>                                 | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU)  11.8  7.2  6.3  7.7  3.9   | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  1040 92X  (041 9-61  (050 9.74  (050 9.89  (100 9.99  1105 /0.27  1110 /0.43  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.6 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)  640 900  641 9-61  600 9,74  600 9,89  1100 9,99  | i                      | 12.03<br>/1.77<br>11.63<br>11.52<br>11.49  | (S.U.)<br>8.08<br>8.00<br>7.98<br>2.99   | (mV)<br>54<br>60<br>67<br>73             | (mS/cm)<br>13.4<br>14.1<br>14.3<br>14.5  | (NTU) 11.8 7.2 6.3 5.7 3.9  | (mg/L)<br>6.5 (<br>3.22<br>2.26<br>1.93<br>/.85  |
| (feet)    0   | purged (gal)           | 12.03<br>/1.77<br>11.63<br>(1.52<br>/1.49<br>/1.47   | (S.U.)<br>8-03<br>8-00<br>7-98<br>7-99<br>7-99<br>7-99                               | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm) 13.4 14.1 14.3 14.5 14.6 14.6 14.7   | (NTU) 11.8 7.2 6.3 5.7 3.4 3.3 5.0  | (mg/L) 6-8 ( 3.22 2.26 1.93 1.85 1.32 1.74   |
| (feet)  670 900  7047 9-61  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.74  7050 9.75  1100 7050 9.75  11100 7050 9.75  11100 7050 9.75  11100 7050 9.75  EPA SW-846 Method 8082   | purged (gal)           | 12.03<br>/1.77<br>11.63<br>(1.52<br>/1.49<br>11.49<br>11.49  | (S.U.)  8.08  8.00  7.98  7.99  7.99  7.99  7.99                                     | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm) 13.4 14.5 14.6 14.6 14.6 14.6 14.6 14.6                                      | (NTU)  //. 8  //. 2  /   | (mg/L) 6.9 ( 3.22 2.26 1.93 1.85 1.85 1.82 1.74  |
| (feet)    0   | purged (gal)           | 12.03<br>/1.77<br>11.63<br>(1.52<br>/1.49<br>11.49<br>11.49  | (S.U.)<br>8-03<br>8-00<br>7-98<br>7-99<br>7-99<br>7-99                               | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm) 13.4 14.1 14.3 14.5 14.6 14.6 14.7   | (NTU) 11.8 7.2 6.3 5.7 3.4 3.3 5.0  | (mg/L) 6-8 ( 3.22 2.26 1.93 1.85 1.32 1.74   |
| (feet)  | PCB's TCL VOC's        | 12.03<br>/1.77<br>11. 63<br>11. 52<br>11. 49<br>11.47<br>11.47<br>11.41  | (S.U.)  8.08  8.00  7.98  7.99  7.99  7.99  7.99                                     | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm) 13.4 14.5 14.6 14.6 14.6 14.6 2 - 1 liter amber 2 - 40 mL vials              | (NTU)  //. 8  //. 2  //. 3  //. 3  //. 3  //. 3  //. 4  //. 5  // 4  // 5  // 5  // 6  // 7  // | (mg/L) 6.6 ( 3.22 2.26 1.93 1.85 1.85 1.82 1.74  |
| (feet)  | PCB's TCL VOC's        | 12.03 //. 77 //. 73 //. 75 //. 79 //. | (S.U.)  8-03  8-00  7-98  7-99  7-99  7-99  7-99  7-99  7-99  7-99  7-99  7-99  7-99 | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm)  /3.4  /4.3  /4.5  /4.6  /4.7  2 - 1 liter amber 2 - 40 mL vials  Shipped: I | (NTU)  //. 8  //. 2  //. 3  //. 3  //. 3  //. 3  // 4  // 5  // 5  // 6  // 7 | (mg/L) 6.6( 3.22 2.26 1.93 1.85 1.85 1.82 1.74   |
| (feet)   (byo   9.) \( \) (0 \( \)   9.6 \( \) (0 \( \)   9.8 \( \) (0 \( \)   9.8 \( \) (0 \( \)   9.8 \( \) (0 \( \)   9.2 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   9.2 \( \) (1 \( \)   0 \( \)   9.2 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \) (1 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \)   0 \( \)   0 \( \) (1 \( \) \) (1 \( \) (1 \( \)   0 \( \) (1 \( \) \) (1 \( \) (1 \( \) \) (1 \( \) (1 \( \) \) (1 \( \) \) (1 \( \) \( \) (1 \( \) \) (1 \( \) \( \) (1 \( \) \) (1 \( \) \) (1 \( \) \( \) (1 \( \) \) (1 \( | PCB's TCL VOC's        | C   12.03   /1.77   /1.63   /1.52   /1.45   /1 | (S.U.)  8-08  7-13  8-00  7-98  7-99  7-99  7-99  7-99  No X                         | (mV)<br>57<br>60<br>67<br>73<br>85<br>87 | (mS/cm)  /3.4  /4.3  /4.5  /4.6  /4.7  2 - 1 liter amber 2 - 40 mL vials  Shipped: I | (NTU)  // 8  // 2  /- 3 | (mg/L)  6.6 ( 3.22  2.26  1.93  1.85  1.32  1.74  No N |

| Sampling Personnel:  |                               |  |  | Date:                                       | 4/18/17  |   |  |
|--|-------------------------------|--|--|---|--|---|--|
| Job Number: 06-02882   |                               |  |  | Weather                                     | SUNIM  | 48.   |  |
| Well Id. MW-12   |                               |  |  | Time In:                                    | טעטן   | Time Out:   | 1035   |
|  |                               |  |  |   |  |   |  |
| Well Information   | <del></del>                   |  |  |   |  |   | [  |
|  |                               | TOC<br>XV7   | Other  | Well Typ<br>Well Loc                        |  | hmount Yes  | Stick-Up<br>No   |
| Depth to Water:  | (feet)                        | 19.55  |  |   | keu.<br>g Point Marked:  | Yes   | No   |
| Depth to Bottom:  Depth to Product:  | (feet) (feet)                 | 19.00  |  | Well Mat                                    | -  | XISS Oth  | <u></u>  |
| Length of Water Column:  | (feet)                        | 11.12  |  | Well Dia                                    | 1  | 2" Oth  | ***************************************  |
| Volume of Water in Well:   | (gal)                         | 1.78   |  | Commer                                      | ıts:   | <del></del>   | -  |
| Three Well Volumes:  | (gal)                         | 5.84   |  |   |  |   |  |
|  |                               | ***************************************  |  |   |  |   | ···  |
|  |                               |  |  |   |  |   |  |
| Purging Information  | 194                           |  |  |   | <u> </u>   | Conversion F  | actore   |
| P  | Bailer                        | . To pariota   | ltic Grundfos F                                      | ump othe                                    | gal/ft.  | 1" ID 2" ID   | 4" ID   6" ID  |
| Purging Method: Tubing/Bailer Material:  | Teflon                        | <del></del>  | F  | · K——                                       |  |   |  |
| Sampling Method:   | Bailer                        |  | Itic Grundfos F                                      |   | <del>                                     </del>                                 | 0.04 0.16   | 0.66 1.47  |
| Average Pumping Rate:  |                               | 12mJ   | <u> </u>   |   |  | n=3.785L=3785n  |  |
| Duration of Pumping:   | (min)                         | 3.0  |  |   | <del></del>  |   |  |
| Total Volume Removed:  | (gal)                         | ~ 2.0  | Did well go dry?                                     | Yes N                                       | o 🔀  |   |  |
| YSI 6920 or Horiba U-52 W  | ·····                         |  | es No  |   |  |   |  |
| 1010020 01101100 0 02 11   | otor deadity in               |  | <u> </u>   | <u> </u>                                    |  |   |  |
|  | T A .                         | · -  | - T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1              |   | T  |   |  |
| Time DTW   | Amount                        | Temp   | pН   | ORP   | Conductivity   | Turbidity   | DO   |
| (feet)   | Amount purged (gal)           | °C   | (S.U.)   | ORP<br>(mV)                                 | (mS/cm)  | (NTU)   | (mg/L)   |
| (feet)   | 1                             | //. <b>50</b>  | (S.U.)<br><b>7.97</b>                                | (mV)  | (mS/cm)  | (NTU)<br>/%.4   | (mg/L)   |
| (feet)   (738   72   72   732   732   732   732   733   73 | 1                             | 11.50  | (S.U.)<br>7.97<br>8.13                               | (mV)  | (mS/cm)<br>7.5/<br>7.77  | (NTU)<br>/9.4<br>/4.1   | (mg/L)   |
| (feet)<br> IW 9,38<br> OV 9,72<br> DIG 1,91  | 1                             | 11.50<br>11.63   | (S.U.)<br>7.97<br>8.13                               | (mV)<br>6<br>-7<br>-10                      | (mS/cm)<br>7.5/<br>7.77<br>7.71  | (NTU)<br>/9.4<br>/4.1<br>2.9  | (mg/L)<br>337<br>.59   |
| (feet)<br>  100 9,38<br>  100 9,72<br>  1010 9,91<br>  1015 9,96   | 1                             | 11.50<br>11.63<br>11.62<br>11.69   | (S.U.)<br>7.97<br>8.13<br>8.18                       | (mV)<br>6<br>-7<br>-10                      | (mS/cm)<br>7.5/<br>7.77<br>7.71<br>7.70  | (NTU)<br>/9.4<br>/4.1<br>2.9<br>2.0   | (mg/L) 337 ,59 ,17   |
| (feet)   | 1                             | 11.50<br>(1.63<br>(1.62<br>11.69<br>(1.76                                      | (S.U.)<br>7.97<br>8.13<br>8.18<br>3.18               | (mV)<br>6<br>-7<br>-10<br>-11               | (mS/cm)<br>7.5/<br>7.77<br>7.71<br>7.70<br>7.69                                  | (NTU)<br>/4.4<br>/4.1<br>2.9<br>2.0<br>/-2  | (mg/L)  337  .17  0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 ,59 ,17   |
| (feet)<br>  100 9,38<br>  100 9,72<br>  1010 9,91<br>  1015 9,96<br>  1020 9,99  | 1                             | 11.50<br>(1.63<br>(1.62<br>11.69<br>(1.76                                      | (S.U.)<br>7.97<br>8.13<br>8.18<br>3.18               | (mV)<br>6<br>-7<br>-10<br>-11               | (mS/cm)<br>7.5/<br>7.77<br>7.71<br>7.70<br>7.69                                  | (NTU)<br>/4.4<br>/4.1<br>2.9<br>2.0<br>/-2  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | 1                             | /1.50<br>/1.63<br>/1.63<br>/1.69<br>/1.76<br>/1.76                             | (S.U.)<br>7.97<br>8.13<br>8.18<br>8.18               | (mV)<br>6<br>-7<br>-10<br>-11<br>-11<br>-12 | (mS/cm)<br>7.51<br>7.77<br>7.71<br>7.70<br>7.69<br>7.68                          | (NTU)<br>/1.4<br>/4.1<br>2.9<br>2.0<br>/.3  | (mg/L) 337 .17 .17 .0  |
| (feet)   | purged (gal)                  | /1.50<br>/1.63<br>/1.69<br>/1.76<br>/1.80<br>/1.80                             | (S.U.) 7.97 8.13 8.18 8.18 8.18                      | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm)  7.5/ 7.77 7.71 7.70 7.69 7.68 7.68                                      | (NTU)<br>/1.4<br>14.1<br>2.9<br>2.0<br>1.3<br>.6<br>.9  | (mg/L)  3.37  .17  0  0  0 0   |
| (feet)   | purged (gal)                  | 11.50<br>(1.63<br>(1.69<br>(1.76<br>11.80<br>11.82                             | (S.U.) 7.77 8.13 8.18 8.18 8.18 detection limit of 0 | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm)  7.5/ 7.77 7.70 7.69 7.68 7.68 4-1 liter ambe                            | (NTU) /%.4 /%.4 2.9 2.0 /.3 .6 .9   | (mg/L)  3.37  .17  0  0  0  0  No  |
| (feet)   | purged (gal)  PCB's TCL VOC's | //.50<br>//.62<br>//.69<br>//.69<br>//.76<br>//.80<br>//.82                    | (S.U.) 7.97 8.13 8.18 8.18 8.18                      | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm)  7.5/ 7.77 7.71 7.70 7.69 7.68 7.68                                      | (NTU)<br>/1.4<br>14.1<br>2.9<br>2.0<br>1.3<br>.6<br>.9  | (mg/L)  3.37  .17  0  0  0  No   |
| (feet)   | PCB's TCL VOC's               | 11.50<br>11.69<br>11.69<br>11.76<br>11.80<br>11.82<br>Low Included             | (S.U.) 7.77 8.18 8.18 8.18 detection limit of 0      | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm) 7.5/ 7.77 7.70 7.69 7.68 7.68 4 - 1 liter ambe 2 - 40 mL vials           | (NTU) //2.4 //4.1 2.9 2.0 /.3 .6 .9  Yes  | (mg/L)  3.37  .17  0  0  0  0  No  |
| (feet)   | PCB's TCL VOC's               | //.50<br>//.62<br>//.69<br>//.69<br>//.76<br>//.80<br>//.82                    | (S.U.) 7.77 8.13 8.18 8.18 8.18 detection limit of 0 | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm) 7.5/ 7.77 7.70 7.69 7.68 7.68 4 - 1 liter ambed 2 - 40 mL vials Shipped: | (NTU) //2.4 //4.1 2.9 2.0 /.3 .6 .9  Yes  | (mg/L)  3.37  .17  0  0  0  No No  |
| (feet)   | PCB's TCL VOC's               | //.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>Low<br>Included | detection limit of Clading Naphthalene               | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm) 7.5/ 7.77 7.70 7.69 7.68 4-1 liter ambet 2-40 mL vials Shipped: If       | (NTU) //2.4 //2.0 | (mg/L)  J.J.  J.J. |
| (feet)   | PCB's TCL VOC's cate-www. Du  | //.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>//.yo<br>Low<br>Included | detection limit of Clading Naphthalene               | (mV) 6 -7 -10 -11 -11 -12 -12               | (mS/cm) 7.5/ 7.77 7.70 7.69 7.68 7.68 4 - 1 liter ambed 2 - 40 mL vials Shipped: | (NTU) /9.4  1Y-1 2.9 2.0 1.3 .6 .9  Yes Yes   | (mg/L)  J.J.  1.77  O O O No No No De Courier UPS allytical  |

|  |  |                       |               |                                    | · · · · · · · · · · · · · · · · · · · |                   |   |                                       |
|--|--|-----------------------|---------------|------------------------------------|---------------------------------------|-------------------|---|---------------------------------------|
| Sampling Perso   | nnel:                                  |                       |               |                                    | Date:                                 | 4/18/17           |   | · · · · · · · · · · · · · · · · · · · |
| Job Number:  | 06-02882                               |                       |               |                                    | Weather:                              | Jan.              | <u> 38°                                    </u> |                                       |
| Well Id.   | viW-20                                 |                       |               |                                    | Time In:                              | 130               | Time Out:                                       | FOS                                   |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
| Well Inforr  | mation                                 |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       | TOC           | Other                              | Well Type                             | : Flusi           | nmount 🔀 Si                                     | tick-Up                               |
| Depth to Water:  |  | (feet)                | 8.60          |                                    | Well Lock                             | ed:               | Yes   | No                                    |
| Depth to Bottom  | า:                                     | (feet)                | 22.60         |                                    | _                                     | Point Marked:     | Yes   | No                                    |
| Depth to Produc  | ot:                                    | (feet)                |               |                                    | Well Mate                             |                   | ∑SS Othe  |                                       |
| Length of Water  |  | (feet)                | 14.N          |                                    | Well Diam                             |                   | 2" \Othe  | er:                                   |
| Volume of Wate   |  | (gal)                 | 2.24          |                                    | Comment                               | 3:                |   |                                       |
| Three Well Volu  | ımes:                                  | (gal)                 | 6.72          |                                    | A-W-11                                |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   | 1                                     |
| Purging Info   | ormation                               |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       |               | <b>.</b>                           |                                       | <u> </u>          | Conversion Fa                                   |                                       |
| Purging Method   |  | Bailer                | Peristaltio   | <u></u>                            | - <del> </del>                        | gai/ft.           | 1" ID 2" ID                                     | 4" ID   6" ID                         |
| Tubing/Bailer M  |  | Teflon                | Stainless St. | <del>-</del>                       | P                                     | of water          | 0.04 0.16                                       | 0.66                                  |
| Sampling Metho   | ······································ | Bailer                | Peristaltic   | Grundfos Po                        | ump other                             | ·······           | n=3.785L=3785ml                                 |                                       |
| Average Pumpii   |  |                       | 30            |                                    |                                       | i gano            | 11-3.703L-3703III                               | L-1337Cu. leet                        |
| Duration of Pum Total Volume Re  |  | (min)                 |               | id well go dry?                    | Yes No                                | <b>v</b>          |   |                                       |
|  |  |                       |               |                                    | res NO                                |                   |   |                                       |
| YSI 6920 or Hor  | riba U-52 Wa                           | ter Quality Me        | eter Us Yes   | No L                               |                                       |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
| Time   | DTW                                    | Amount                | Temp          | pН                                 | ORP                                   | Conductivity      | Turbidity                                       | DO                                    |
|  |  | purged (gal)          | °C            | (S.U.)                             | (mV)                                  | (mS/cm)           | (NTU)   | (mg/L)                                |
| 830  | 8.68                                   |                       | 747           | 7.46                               | -148                                  | 14/1              | 17:6  | <u> 3./3</u>                          |
| 87   | 8.68                                   |                       | <u> 294 </u>  | 7.66                               | -/65                                  | 14.2              | /3 9  | - 13                                  |
| 840  | 8.68                                   |                       | 8.45          | 7.59                               | <u>- 177</u>                          | / Y. Ö            | 11.6  | <u> </u>                              |
| 841  | 1.68                                   |                       | 8.52          | 7.59                               | <u>-/76</u>                           | /3.8              | 11.3  | <u> </u>                              |
| 810  | 8-68                                   |                       | <u> </u>      | 7.59                               | - /93                                 | /3.6              | 9.3   | 0                                     |
| 811  | 1.68                                   |                       | 1.65          | 7.59                               | -199                                  | 13.1              | 1.1   | <del>-</del>                          |
| 900  | 84.8                                   |                       | 8.70          | 7.59                               | -204                                  | 13.0              | 1.3   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
| <u> </u>   |  |                       |               | <u> </u>                           | <u></u>                               |                   |   | LJ                                    |
|  |  |                       |               |                                    |                                       |                   |   |                                       |
| Sampling Infor   | mation:                                |                       |               |                                    |                                       |                   |   |                                       |
|  | lb - 4 0000                            | DOD!                  | r             | Annking Back -FO                   | 0E mm>                                | O 4 Diamento      |   | ZN0                                   |
| EPA SW-846 Met   |  | PCB's                 |               | tection limit of 0.                |                                       | 2 - 1 liter amber | Į*  | No No                                 |
| EPA SW-846 Met   | moa 8260                               | TCL VOC's             | includir      | ng Naphthalene                     |                                       | 2 - 40 mL vials   | Yes   |                                       |
| Compain ID: 15   | 181 20 2447                            | <b>n</b>              | olinato?      | v <sub>oo</sub> ch <sub>u-</sub> M |                                       | Shinnad:          | )rop-off Pace                                   | Courier                               |
| · · · · · · · · · · · · · · · · · · ·  | W-20-0417                              |                       |               | Yes No                             |                                       |                   | Fed-Ex  | UPS                                   |
| Sample Time:   | <u>-902</u>                            | <u>, INIS</u>         | יפואוסי       | Yes No X                           |                                       |                   |   | - Landerson I                         |
| Comments/Note  | es:                                    | AI                    | 1             |                                    |                                       | Laboratory:       | PACE Ana  | lytical                               |
| West Committee of the C |  | 10 Sheen<br>Oblea Ugi | )             |                                    |                                       |                   | Greensbur                                       | g, PA                                 |
|  | if                                     | Alla Jo               | s od~         |                                    | <u> </u>                              |                   |   |                                       |
|  | Ţ                                      | RALAN MAL             | A MAAA.       |                                    |                                       |                   |   |                                       |

| Sampling Per   | rsonnel:                                 |                    |             |                     | Date:         | 4/18/17                              |  |  |
|--|--|--------------------|-------------|---------------------|---------------|--------------------------------------|--|--|
| Job Number:  |  |                    |             |                     | Weather:      | Sunne                                | ,450                                       |  |
| 6000   | MW-21                                    |                    |             | ···········         | Time In:      | 910                                  | Time Out:                                  | 950                                      |
| Well Id.   | IAIAA-T I                                | <u> </u>           | <b></b>     |                     | FILLE III.    |                                      | Tasic Ode.                                 | 730                                      |
| Well Inf   | ormation                                 |                    |             |                     |               |                                      |  |  |
| vven mil   | Officion                                 | -                  | TOC         | Other               | Well Type     | · Flus                               | hmount S                                   | tick-Up                                  |
| Depth to Wat   | er                                       | (feet)             | 1.5         |                     | Well Lock     |                                      | Yes  | No                                       |
| Depth to Bott  |  | (feet)             | 21.85       |                     | Measuring     | Point Marked:                        | Yes  | No                                       |
| Depth to Prod  |  | (feet)             |             |                     | Well Mate     | rial: PVC                            | ⊠ss Oth                                    | ər:                                      |
| Length of Wa   | iter Column:                             | (feet)             | /3.30       |                     | Well Diam     | neter: 1"                            | 2" \( \sum \) Othe                         | er:                                      |
| Volume of W  | ater in Well:                            | (gal)              | 2.13        |                     | Comment       | s:                                   |  |  |
| Three Well V   | olumes:                                  | (gal)              | 6.39        |                     |               |                                      |  |  |
|  |  |                    |             |                     |               |                                      |  |  |
| p  |  |                    |             |                     |               |                                      |  |  |
| Purging I  | nformation                               | _                  |             |                     |               |                                      |  |  |
|  |  |                    |             | K-2                 | <del></del> 1 |                                      | Conversion Fa                              | <del></del>                              |
| Purging Meth   |  | Baile              |             | <u> </u>            | · (           |                                      | 1" ID 2" ID                                | 4" ID   6" ID                            |
| Tubing/Bailer  |  | Teflor             | ·····       | <b>-</b>            | ·             |                                      | 0.04                                       | 0.00 4.47                                |
| Sampling Me  |  | Baile              |             | ic Grundfos F       | other other   | <del></del>                          | 0.04 0.16                                  | 0.66 1.47                                |
| Average Pum  | <del></del>                              | 1                  | -210-4      |                     |               | 1 gallo                              | n=3.785L=3785m                             | L=1337cu, teet                           |
| Duration of P Total Volume                                 |  | (min)              | 70          | Did well go dry1    | Yes No        |                                      |  |  |
|  |  | (gal)              |             |                     | 168 140       |                                      |  |  |
| YSI 6920 or I  | Horiba U-52 W                            | ater Quality M     | eter Us: Ye | s No                |               |                                      |  |  |
|  |  |                    |             |                     |               |                                      |  |  |
| Time   | DTW                                      | Amount             | Temp        | pН                  | ORP           | Conductivity                         | Turbidity                                  | DO                                       |
|  | (feet)                                   | purged (gal)       |             | (S.U.)              | (mV)          | (mS/cm)                              | (NTU)                                      | (mg/L)                                   |
| 90   | 962                                      |                    | 8.06        | 7.95                | -189          | <u>991</u>                           | 17.3                                       | 3.84                                     |
| 75   | 10.12                                    | <u> </u>           | 7.20        | 7.78                | -182          | /aa-                                 | 15.2                                       | 1.22                                     |
| 920  | 10.97                                    |                    | <u> </u>    | 7.21                | -/18          | 10.5                                 | 11.L<br>8.3                                |  |
| 94   | 10.90                                    |                    | 8.31        | 1.7.76              | -147          | 101                                  |  | 0  |
| 130  | 10.95                                    |                    | 1.35        | 7.75                | - 140         | 10.5                                 | 6.2  | 0  |
| 540  | 11.07                                    |                    | 8.45        | 19:56               | -/33<br>-/30  | 10.6                                 | 5.3<br>3.1                                 | 0  |
|  | //.0/                                    |                    | 8.73        | /• / <b>L</b>       | 1 7 30        | 10.6                                 | - <del> </del>                             |  |
|  |  |                    |             |                     |               |                                      |  |  |
|  |  |                    |             |                     |               |                                      |  |  |
|  |  |                    |             |                     |               |                                      |  |  |
|  |  |                    | 1           |                     |               |                                      |  |  |
| <u> </u>   |  |                    |             |                     |               |                                      |  | <u> </u>                                 |
| <u> </u>   |  |                    |             |                     |               |                                      |  |  |
| Sampling Inf   | formation:                               |                    |             |                     |               |                                      |  | 1  |
| Sampling Inf   | formation:                               |                    |             |                     |               |                                      |  |  |
|  |  | PCB's              | Low d       | etection limit of 0 | 0.05 ppb      | 2 - 1 liter ambel                    | · Yes                                      | No N |
| Sampling Inf<br>EPA SW-846 M<br>EPA SW-846 M               | Method 8082                              | PCB's<br>TCL VOC's |             | etection limit of 0 | * *           | 2 - 1 liter amber<br>2 - 40 mL vials | Yes<br>Yes                                 | No No                                    |
| EPA SW-846 N   | Method 8082                              |                    |             |                     | * *           |                                      | F  |  |
| EPA SW-846 N   | Method 8082                              | TCL VOC's          |             |                     | * *           | 2 - 40 mL vials                      | Yes  |  |
| EPA SW-846 N   | Method 8082<br>Method 8260<br>MW-21-0417 | TCL VOC's          | includ      | ing Naphthalene     | * *           | 2 - 40 mL vials Shipped:             | Yes  | No⊠                                      |
| EPA SW-846 M<br>EPA SW-846 M<br>Sample ID:<br>Sample Time: | Method 8082<br>Method 8260<br>MW-21-0417 | TCL VOC's  Du  MS  | Includ      | ing Naphthalene     | * *           | 2 - 40 mL vials Shipped:             | Yes<br>Drop-off Pace<br>Fed-Ex             | No No Courier UPS                        |
| EPA SW-846 N<br>EPA SW-846 N<br>Sample ID:                 | Method 8082<br>Method 8260<br>MW-21-0417 | TCL VOC's  Du  MS  | Includ      | ing Naphthalene     | * *           | 2 - 40 mL vials Shipped:             | Yes<br>Drop-off Pace<br>Fed-Ex<br>PACE Ana | No No Courier UPS UVIcal                 |
| EPA SW-846 M<br>EPA SW-846 M<br>Sample ID:<br>Sample Time: | Method 8082<br>Method 8260<br>MW-21-0417 | TCL VOC's          | Includ      | ing Naphthalene     | * *           | 2 - 40 mL vials Shipped:             | Yes<br>Drop-off Pace<br>Fed-Ex             | No No Courier UPS UVIcal                 |

| Sampling Per                  | reonnel       |                 |               |  | Date:                  | 4/18/17           |                |  |
|-------------------------------|---------------|-----------------|---------------|--|------------------------|-------------------|----------------|--|
| Job Number:                   |               |                 |               |  | Weather:               | Sunny             | 38'            | ······································ |
| 10000                         |               |                 |               |  |                        | 7.00              | Time Out:      | BZT                                    |
| Well Id.                      | MW-24         |                 |               |  | Time In:               | 741               | Time Out.      |  |
| 10/-11 1-6                    |               |                 |               |  |                        |                   |                |  |
| vven int                      | ormation      | •               | T00           | Othor                                  | Mall Tuna              | . Elua            | hmount X       | Stick-Up                               |
| Denth to Mot                  |               |                 | P75           | Other                                  | Well Type<br>Well Lock |                   | Yes            | No No                                  |
| Depth to Wat<br>Depth to Bott |               | (feet) (feet)   | 24.25         |  |                        | Point Marked:     | Yes            | No                                     |
| Depth to Prod                 |               | (feet)          | 27.20         |  | Well Mate              |                   | X ss Oth       | · · · · L                              |
| Length of Wa                  |               | (feet)          | 17,50         |  | Well Diam              |                   | 2" Oth         |  |
| Volume of W                   |               | (gal)           | 2.48          |  | Comment                |                   |                |  |
| Three Well V                  |               | (gal)           | 7.44          |  |                        |                   |                |  |
|                               |               |                 | 1840          |  |                        |                   |                |  |
|                               |               |                 |               |  | (N) (N)                |                   |                |  |
| Puraina li                    | nformation    |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   | Conversion F   | actors                                 |
| Purging Meth                  | od:           | Bailer          | Peristaltic   | Grundfos P                             | ump other              | gal/ft.           | 1" ID 2" ID    | 4" ID 6" ID                            |
| Tubing/Bailer                 |               | Teflon          | Stainless St. | Polyethy                               | fene other             | 3 1 1 -           |                |  |
| Sampling Me                   |               | Bailer          |               | Grundfos P                             | ump other              | water             | 0.04 0.16      | 0.66 1.47                              |
| Average Purr                  |               | (ml/min)        | 210           |  |                        | 1 gallo           | n=3.785L=3785n | nL=1337cu. feet                        |
| Duration of P                 | umping:       | (min)           | 30            |  | <del></del>            | -                 |                |  |
| Total Volume                  | Removed:      | (gal)           | <u>~ 20</u> D | id well go dry?                        | Yes No                 | <u> </u>          |                |  |
| YSI 6920 or h                 | Horiba U-52 W | ater Quality Me | eter Us Yes   | No                                     |                        |                   |                |  |
| L                             |               |                 |               | Kand Land                              |                        |                   |                |  |
| Time                          | l DTW         | Amount          | Temp          | рН                                     | ORP                    | Conductivity      | Turbidity      | DO                                     |
| I HITE                        | (feet)        | purged (gal)    | °C            | (S.U.)                                 | (mV)                   | (mS/cm)           | (NTU)          | (mg/L)                                 |
| 150                           | 8.80          | pargea (gar)    | 6.09          | 6.47                                   | -99                    | 10.7              | 11.12          | .55                                    |
| 711                           | 8.82          |                 | 7.48          | 7.16                                   | -1/2                   | 10.6              | 12.1           | 2.26                                   |
| in                            | 8.80          |                 | 7.91          | 7.34                                   | -132                   | 10.5              | 13.7           | 1.22                                   |
| 805                           | 8.80          |                 | 8.09          | 7.48                                   | - 150                  | 10.7              | 5.8            | 258                                    |
| 810                           | 1.80          |                 | 8.16          | 7.49                                   | -15%                   | 10.7              | 6.0            | •32                                    |
| 818                           | 8.80          |                 | 8.20          | 7.50                                   | -159                   | 107               | 2.3            | 0                                      |
| 820                           | 8180          |                 | 8.22          | 7.50                                   | -162                   | 10.7              | 5.0            | 0                                      |
|                               |               |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   |                | <u> </u>                               |
|                               |               |                 |               |  |                        |                   |                | 7                                      |
| Sampling Inf                  | formation:    |                 |               |  |                        |                   |                |  |
|                               |               |                 |               |  |                        |                   |                |  |
| EPA SW-846 N                  | Vethod 8082   | PCB's           | Low de        | tection limit of 0                     | .05 ppb                | 2 - 1 liter amber |                | ⊠ No □                                 |
| EPA SW-846 N                  | Method 8260   | TCL VOC's       | Includir      | ng Naphthalene                         |                        | 2 - 40 mL vials   | Yes            | No⊠                                    |
| ł                             |               |                 |               |  | ı                      |                   |                | r1                                     |
|                               |               |                 |               |  |                        | Chimpod: E        |                |  |
| •                             | MW-24-0417    |                 |               | Yes No X                               |                        |                   | - <del></del>  | e Courier                              |
| Sample ID:<br>Sample Time:    | MW-24-0417    |                 |               | Yes No                                 |                        |                   | Fed-Ex Pac     | e Courier UPS                          |
| Sample Time:                  | 870           | Ms              | /DMS?         | —————————————————————————————————————— |                        | , ·               |                | UPS                                    |
| •                             | 870           | Ms              | /DMS?         | —————————————————————————————————————— |                        |                   | Fed-Ex         | UPS                                    |
| Sample Time:                  | 870           |                 | /DMS?         | —————————————————————————————————————— |                        | , ·               | Fed-Ex PACE An | UPS                                    |

| Well ID. | Sample?         | Well Size | DTP            | DTW   | DTB   | Comments                               |
|----------|-----------------|-----------|----------------|-------|-------|--|
| ESI-1    | VOC's Fall only | 4"        | trace on boom  | 4.00  | 21.50 | Checked sorbant sock                   |
| MW-1     | yes             | 4"        |                | 3.22  | 29.90 |  |
| MW-2     | no              | 4"        |                | 13.38 | 44.17 |  |
| MW-5     | no              |           |                | 13.51 | 21.40 |  |
| MW-6     | yes             | 2"        |                | 10.20 | 21.05 | MS/MSD                                 |
| MW-7     | no              | 2"        |                | 11.58 | 21.30 |  |
| MW-9     | yes             | 2"        |                | 10.90 | 22.05 |  |
| MW-10    | no              | 2"        |                | 10.70 | 24.25 |  |
| MW-11    | yes             | 2"        |                | 8.34  | 20.22 |  |
| MW-12    | yes             | 2"        |                | 8.65  | 19.55 | Duplicate Sample                       |
| MW-13    | no              | 2"        |                | 11.93 | 26.25 |  |
| MW-15    | no              | 2"        |                | 13.18 | 23.80 |  |
| MW-16    | VOC's Fall only | 2"        | trace on probe | 15.50 | 20.36 |  |
| MW-17    | no              | 2"        |                | 12.45 | 20.60 |  |
| MW-19    | no              | 2"        |                | 13.60 | 24.00 |  |
| MW-20    | yes             | 2"        |                | 8.78  | 22.60 | Well in roadway. Lane closure required |
| MW-21    | yes             | 2"        |                | 8.70  | 21.85 | Well in roadway. Lane closure required |
| MW-24    | yes             | 2"        |                | 8.83  | 24.25 | Well in roadway. Lane closure required |
| MW-25    | no              | 2"        |                | 6.88  | 15.36 |  |



| Sampling Personnel: TB   | eaumont          |   |  | Date:  | 10/18/17   |  |  |
|--|------------------|---|--|--|--|--|--|
| Job Number: 06-03000   |                  | <u> </u>  |  | Weathe                                       | A  | 62   |  |
| Well Id. MW-1  |                  |   | ****   | Time In:                                     |  | Time Out:  | 10RT   |
|  |                  |   |  |  |  |  |  |
| Well Information   |                  |   |  |  |  |  |  |
|  |                  | TOC   | Other  | Well Ty                                      | oe: Flus   | shmount X Stie   | ck-Up  |
| Depth to Water:  | (feet)           | 3.22  |  | Well Lo                                      |  | Yes  | No   |
| Depth to Bottom:   | (feet)           | 29.90   |  |  | g Point Marked:  | Yes  | No   |
| Depth to Product:  | (feet)           |   |  | Well Ma                                      |  | <del></del>  |  |
| Length of Water Column:  | (feet)           | 2668  |  | Well Dia                                     |  | 2" Other   | : 4"   |
| Volume of Water in Well:   | (gal)            | 17.60   |  | Comme  | nts:   |  |  |
| Three Well Volumes:  | (gal)            | 5250  | •  |  |  |  | <del> </del>   |
|  |                  |   |  |  |  |  |  |
| Duraina Information  |                  | -   |  |  |  |  |  |
| Purging Information  |                  |   |  |  | r  | <del></del>  |  |
| Duraina Mathadi  |                  | C Sariatani   | <b>\</b>                                       |  |  | Conversion Fac   |  |
| Purging Method: Tubing/Bailer Material:  | Bailer           | <b>—</b>  | <b>K</b>                                       |  | 90"''  | 1" ID   2" ID   4  | 4" ID 6" ID  |
| Sampling Method:   | Teflon<br>Bailer | <del></del>   | , ·  | _  | H   *  | 0.04 0.16  | 0.66   1.47  |
| Average Pumping Rate:  | (ml/min)         | 250   | C Giunulos r                                   | oth  |  | on=3.785L=3785mL=  |  |
| Duration of Pumping:   | (min)            | 30  |  |  | L i yan  | ON=3./85L-3/65HL-  | 133/Cu. ieei   |
| Total Volume Removed:  | (gal) -          |   | Did well go dry?                               | Yes  |  |  |  |
|  |                  |   |  | ٠٠٠٠.  | ** <u>*</u>  |  |  |
| YSI 6920 or Horiba U-52 Wa   | ater Quality ivi | leter Us Yes  | s No   | <del></del>                                  |  |  |  |
| Time DTW   | Amount           | Temp  | ∫ pH   | 000  | Conductivity   | Tumbialita   | T  |
|  |                  |   |  | ORP  | Conductivity   | Turbidity  | DO   |
| (feet)   | purged (gal)     | °C  | (S.U.)   | (mV)   | (mS/cm)  | (NTU)  | (mg/L)   |
| /m 3.25  |                  | °C  | (S.U.)   | (mV)   |  | 1 ' 1  |  |
| (n) 3.25<br>w( 3.24  |                  | /887<br>/122  | (S.U.)<br>7.24<br>7.24                         | (mV)<br>-101<br>-116                         | (mS/cm)<br>17.0  | (NTU)<br>9.2<br>5.7  | (mg/L) .51 .02   |
| 100 3.25<br>1010 3.24  |                  | /887<br>/122<br>/1.30   | (S.U.)<br>7·24<br>7·24<br>7·24                 | (mV)<br>-101<br>-116                         | (mS/cm)<br>17.0<br>17.0  | (NTU)<br>9.2<br>5.7  | (mg/L) -51 -52 -6  |
| 100 3.25<br>1010 3.24<br>1010 3.24<br>1011 3.24  |                  | 1887<br>1922<br>1930<br>1937  | (S.U.) 7·24 7·24 7·24 7·24                     | (mV)<br>-101<br>-116<br>-118                 | (mS/cm)<br>17.0  | (NTU)<br>9.2<br>5.7<br>3.7                                   | (mg/L) -51 -52 -6  |
| 100 3.25<br>1010 3.24<br>1011 3.24<br>1020 3.24  |                  | 1887<br>1987<br>1922<br>1930<br>1930  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24           | (mV)<br>-101<br>-116<br>-118<br>-118         | (mS/cm)<br>17.0<br>17.0<br>17.1<br>17.1  | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .52 .5 .5 .5  |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7                                   | (mg/L) -51 -52 -6  |
| 100 3.25<br>1010 3.24<br>1011 3.24<br>1020 3.24  |                  | 1887<br>1987<br>1922<br>1930<br>1930  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24           | (mV)<br>-101<br>-116<br>-118<br>-118         | (mS/cm)<br>17.0<br>17.0<br>17.1<br>17.1  | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .52 .5 .5 .5  |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 100 3.24<br>1010 3.24<br>1010 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0 .0                                 |
| 1020 3.24<br>1020 3.24<br>1020 3.24<br>1020 3.24   |                  | 1887<br>1922<br>1930<br>1930<br>1940<br>1942  | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24      | (mV)<br>-101<br>-116<br>-118<br>-118<br>-118 | (mS/cm) 17.0 17.0 17.1 17.1 17.1   | (NTU)<br>9.2<br>5.7<br>3.7<br>1.8<br>2.2                     | (mg/L) .51 .02 .0 .0 .0 .0 .0 .0 .0                                    |
| 100   3.25   1010   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1030   3.24   1 | purged (gal)     | °C<br>1887<br>1922<br>19.30<br>19.37<br>19.40<br>19.42<br>19.44   | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.0 17.1 17.1 17.0 17.1  | (NTU) 9.2 5.7 1.8 2.2 1.1                                    | (mg/L) .5 / .5 z .5 c .5 c   |
| 100   3.24   1010   3.24   1020   3.24   1 | purged (gal)     | °C<br>1887<br>19.22<br>19.30<br>19.40<br>19.42<br>19.44<br>Low de   | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.0 17.1 17.1 17.1 17.0 17.1   | (NTU) 9.2 5.7 3.7 1.8 2.2 1.1 .6                             | (mg/L) .5 / .02 .6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0              |
| 100   3.25   1010   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1030   3.24   1 | purged (gal)     | °C<br>1887<br>19.22<br>19.30<br>19.40<br>19.42<br>19.44<br>Low de   | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.0 17.1 17.1 17.0 17.1  | (NTU) 9.2 5.7 1.8 2.2 1.1                                    | (mg/L) .5 / .5 z .5 c .5 c   |
| 100   3.24   101   3.24   1020   3.24   1020   3.24   1020   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   10 | PCB's TCL VOC's  | C 1887 1922 19.30 19.30 19.40 19.40 19.40 19.40 19.40 Including   | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.0 17.1 17.1 17.0 17.1 2-1 liter ambe 2-40 mL vials                       | (NTU) 9.2 5.7 3.7 1.8 2.2 1.1 .6                             | (mg/L) .5 / .5 2 .5 2 .5 3 .5 3 .5 3 .5 3 .5 3 .5 3 .5 3 .5 3          |
| 100   3.24   1010   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   3.24   1020   1 | PCB's TCL VOC's  | °C   1887   19.22   19.33   19.33   19.37   19.42   19.44 | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.1 17.1 17.0 17.1 17.0 17.1 2-1 liter ambe 2-40 mL vials Shipped: D       | (NTU) 9.2 5.7 3.7 1.8 2.2 1.1 .6  Yes Yes                    | (mg/L)  .5 / .02  .5 / .02  .5 / .00  .00  .00  .00  .00  .00  .00  .0 |
| 100   3.24   1010   3.24   1020   3.24   1020   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   3.24   1025   1 | PCB's TCL VOC's  | C 1887 1922 19.30 19.30 19.40 19.40 19.40 19.40 19.40 Including   | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.1 17.1 17.0 17.1 17.0 17.1  2 - 1 liter ambe 2 - 40 mL vials  Shipped: D | (NTU)  9.2  5.7  1.8  2.2  1.1  .6  rop-off Pace Coded-Ex Up | (mg/L)  .5 / .02  .0  .0  .0  .0  .0  .0  .0  .0  .0                   |
| 100   3.24   1010   3.24   1020   3.24   1 | PCB's TCL VOC's  | °C   1887   19.22   19.33   19.33   19.37   19.42   19.44 | (S.U.) 7.24 7.24 7.24 7.24 7.24 7.24 7.24 7.24 | (mV) -101 -116 -118 -118 -118 -119           | (mS/cm) 17.0 17.1 17.1 17.0 17.1 17.0 17.1 2-1 liter ambe 2-40 mL vials Shipped: D       | (NTU) 9.2 5.7 3.7 1.8 2.2 1.1 .6  Yes Yes                    | (mg/L) .51 .02 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5 .5                  |

| Sampling Pe   | rsonnel: Ti   | Beaumont   |             |                                       | Date:   | 10/18/17          |                 |                  |
|---------------|---------------|--|-------------|---------------------------------------|---|-------------------|-----------------|------------------|
| Job Number:   |               |  |             |                                       | Weathe  |                   | 6).             |                  |
| Well Id.      | MW-6          |  |             | · · · · · · · · · · · · · · · · · · · | Time In:  |                   | Time Out:       | 112.             |
| vven id.      | 14144-0       |  |             |                                       | 111110 111.   | 1045              | Time Out.       | 1130             |
| Well Inf      | ormation      |  |             |                                       |   |                   |                 |                  |
|               | Officiation   | -  | TOC         | Other                                 | Well Ty   | ne. Eluc          | hmount S        | stick-Up         |
| Depth to Wat  | er:           | (feet)   | 10.20       | Other                                 | Well Lo   |                   | Yes             | No No            |
| Depth to Bott |               | (feet)   | 21.05       |                                       |   | g Point Marked:   | Yes             | No               |
| Depth to Pro  |               | (feet)   | -           |                                       | Well Ma   | _                 |                 |                  |
| Length of Wa  |               | (feet)   | 10.85       |                                       | Well Dia  | ameter: 1"        | 2" \ Oth        | er:              |
| Volume of W   | ater in Well: | (gal)  | 1.74        |                                       | Comme   | nts:              |                 | <del> </del>     |
| Three Well V  | olumes:       | (gal)  | 5,22        |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
| Purging I     | nformation    | _  |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   | Conversion F    |                  |
| Purging Meth  | <del></del>   | Bailer   | Peristaltic | <u> </u>                              | ·   | ner gal/ft.       | 1" ID 2" ID     | 4" ID 6" ID      |
| Tubing/Baile  |               | Teflon   | <del></del> | Polyeth                               |   | ner of            |                 |                  |
| Sampling Me   |               | Bailer   | Peristaltic | Grundfos F                            | ump oth   | <u> </u>          | 0.04 0.16       | 0.66   1.47      |
| Average Pun   | <del></del>   | (1101101)  | - 175       |                                       |   | 1 gallo           | on=3.785L=3785m | L=1337cu. feet   |
| Duration of P |               | (min)  | <u> 30</u>  | al constitution at a const            |   | . 🕟               |                 |                  |
| Total Volume  |               |  |             | d well go dry?                        | YesI  | No <b>&gt;</b>    |                 |                  |
| YSI 6920 or I | Horiba U-52 W | Vater Quality M                                  | eter Us Yes | No□                                   |   |                   |                 |                  |
|               |               |  | *           |                                       |   |                   |                 |                  |
| Time          | DTW           | Amount   | Temp        | рН                                    | ORP   | Conductivity      | Turbidity       | DO               |
|               | (feet)        | purged (gal)                                     | °C          | (S.U.)                                | (mV)  | (mS/cm)           | (NTU)           | (mg/L)           |
| 1045          | 1090          |  | 18.75       | 7.22                                  | -64   | 14.5              | 8.7             | ,37<br>,12_      |
| 1010          | 10.92         | <del>                                     </del> | 1871        | 7.21                                  | -71   | 14.6              | 3.6<br>1.4      |                  |
|               | 10.92         |  | 18.70       | 7:21                                  | - 72  | 14.6              | 1.4             | 0                |
| 1100          | 1096          |  | 8.68        | 7.2.1                                 | -72   | 14.5              | 0               | 0                |
| 1110          | 10.90         |  | 18.62       | 7.22                                  | -77_  | 14.5              | 9               | ં                |
| 1115          | 10.90         |  | 18.60       | 7.22                                  | -72   | 14.5              | Ö               | Ö                |
|               | 10.70         |  | 70.70       | 7-6 6                                 | 10  |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
|               |               | <u> </u>   |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       | da de de minimo de la compansión de la comp |                   |                 | *****            |
| Sampling In   | formation:    |  |             |                                       |   |                   |                 |                  |
|               |               |  |             |                                       |   |                   |                 |                  |
| EPA SW-846 I  | Method 8082   | PCB's  |             | tection limit of C                    | .05 ppb   | 6 - 1 liter amber | Yes             | No□              |
| EPA SW-846 I  |               | TCL VOC's  |             | g Naphthalene                         |   | 2 - 40 mL vials   | Yes             | No <mark></mark> |
| II.           |               | and MW-6-MS                                      |             | . — . K                               | 7   |                   |                 |                  |
| Sample ID:    | MW-6-101      |  | •           | Yes No                                | 4   |                   | · .             | e Courier        |
| Sample Time:  |               | MS   | S/DMS?      | Yes⊠No                                |   | F                 | ed-Ex           | UPS              |
| Comments/N    | otes:         |  |             |                                       |   | Laboratory:       | PACE Ana        | alytical         |
|               | - $n$         | Shen   |             |                                       | ii.   | -                 | Greensbu        | -                |
|               | •             | 0.4.0  |             |                                       | II.   |                   | Greensbu        | ig, PA           |

| Sampling Pe   | ersonnel: T                           | Beaumont   |               |                     | Date:        | 10/18/17          |                   |  |
|---------------|---------------------------------------|--|---------------|---------------------|--------------|-------------------|-------------------|--|
| Job Number:   |                                       | )  |               |                     | Weather:     |                   | 62.               |  |
| Well Id.      | MW-9                                  |  | No. 10 Table  |                     | Time In:     | 820               | Time Out:         | 900  |
|               |                                       |  |               |                     | 11111        |                   | HIII              |  |
| Well In       | formation                             |  |               |                     |              |                   |                   |  |
|               |                                       |  | TOC           | Other               | Well Type    | e: Flusi          | hmount S          | Stick-Up   |
| Depth to Wat  |                                       | (feet)   | 10.90         |                     | Well Lock    |                   | Yes               | No   |
| Depth to Bott |                                       | (feet)   | 22.05         |                     | -            | Point Marked:     | Yes 🔀             | No   |
| Depth to Prod |                                       | (feet)   |               |                     | Well Mate    |                   | ⊠ssoth            | <del></del>                                      |
| Length of Wa  |                                       |  | 11.15         |                     | Well Diam    | L                 | 2" \( \sum \) Oth | er:  |
| Volume of W   |                                       |  | 178           |                     | Comment      | is:               |                   | ļ  |
| Three Well V  | /olumes:                              | (gal)  | 5.34          |                     |              |                   |                   | <del>-   </del>                                  |
| <u> </u>      |                                       |  |               |                     |              |                   |                   |  |
| Puraina       | Information                           |  |               |                     |              |                   |                   |  |
| I uiging .    | IllUmation                            | -  |               |                     |              |                   | Conversion F      |  |
| Purging Meth  | hod.                                  | Bailer   | Peristaltic   | Grundfos F          | Pump other   | <del></del>       | 1" ID 2" ID       | 4" ID 6" ID                                      |
| Tubing/Bailer | *****                                 | Teflon   | Stainless St. |                     | nylene other |                   | 1 10 2 15         | <del>                                     </del> |
| Sampling Me   | · · · · · · · · · · · · · · · · · · · | Bailer   | Peristaltic   | <b>—</b>            | ·            |                   | 0.04 0.16         | 0.66 1.47  |
| Average Pur   |                                       | (ml/min)   | 171-          | <u> </u>            | -            |                   | on=3.785L=3785m   | <u> </u>   |
| Duration of P |                                       | (min)  | 30            |                     |              | <u> </u>          | F 0.1 002 1       |  |
| Total Volume  |                                       |  |               | oid well go dry?    | ? Yes No     | <b>X</b>          |                   | !  |
|               |                                       | Vater Quality Me   |               |                     | •            |                   |                   | •  |
| 101002001     | MOTIDA U-UZ VI                        | Valti Quality inc  | Her USI 166   |                     |              |                   |                   |  |
| Time          | DTW                                   | Amount   | Temp          | рН                  | ORP          | Conductivity      | Turbidity         | DO   |
|               | (feet)                                | purged (gal)   | °C            | (S.U.)              | (mV)         | (mS/cm)           | (NTU)             | (mg/L)   |
| 820           | 11.75                                 | The same of the sa | 18.00         | 7.41                | -/4-         | 6.21              | 1.6               | · <b>?</b> -6                                    |
| 825           | 12.00                                 |  | 18.00         | 7,79                | -190         | 6.25              | 2.0               | . 41   |
| 830           | 11.76                                 |  | 17.86         | 7.44                | -195         | 6.37              | 1.3               | ,27  |
| 85            | 11.82                                 |  | 17.98         | 7.34                | -207         | 6.41              | ·or               | .15  |
| 240           | 1682                                  |  | 18.00         | 7.42                | _212         | 6.41              | .03               | .03  |
| 84r           | 11.84                                 |  | 18.01         | 7.46                | -224         | 6.44              | .02               | 0  |
| 850           | 11.04                                 |  | 18.02         | 7.45                | -230         | 6.45              | 0                 | ð  |
|               |                                       |  |               |                     |              |                   |                   |  |
|               |                                       | I  |               |                     |              |                   |                   |  |
| 1             |                                       | 4  |               |                     |              |                   |                   |  |
|               |                                       | <del> </del>   |               |                     |              |                   |                   |  |
| Ц             |                                       | <u> </u>   | <del></del>   | <u> </u>            |              | <u> </u>          |                   | <u> </u>   |
| ·             |                                       |  |               |                     |              |                   |                   |  |
| Sampling Int  | formation:                            |  |               |                     |              |                   |                   |  |
| 1             |                                       |  |               |                     |              |                   |                   |  |
| EPA SW-846 N  |                                       | PCB's  |               | etection limit of 0 | • •          | 2 - 1 liter amber |                   | No□  |
| EPA SW-846 N  | Method 8260                           | TCL VOC's  | Includir      | ng Naphthalene      | 3            | 2 - 40 mL vials   | Yes               | No⊠  |
| 1             |                                       | _  | _             | <u> </u>            | 78           |                   | r <del></del> 1   |  |
| Sample ID:    | MW-9-101                              | <u> </u>   |               | Yes No              | لم ا         | • •               |                   | e Courier  |
| Sample Time:  | <u> </u>                              | Ms/  | /DMS?         | Yes No X            | J            | Fe                | ed-Ex 🔀 l         | UPS  |
| Comments/N    | lotes:                                |  |               |                     |              | Laboratory:       | PACE Ana          | alvtical   |
|               |                                       | she  |               |                     | l            |                   | Greensbur         | •  |
|               | ,                                     | <b>6</b> - —   |               |                     | i i          |                   | 0.00              | 19, 17.  |

| Sampling Per  |   |                    |  |   |                                       | 10/10/-  | 7                                 |   |
|---|---|--------------------|--|---|---------------------------------------|--|-----------------------------------|---|
|   | <del></del>   | Beaumont           |  | · · · · · · · · · · · · · · · · · · ·   | Date:                                 | 10/18/1  | /                                 |   |
| Job Number:   | 06-03000  | )                  |  |   | Weather:                              |  | 62                                |   |
| Well Id.  | MW-11   |                    |  |   | Time In:                              | 905  | Time Out:                         | 940   |
| r======   |   |                    |  | - '                                     |                                       |  |                                   |   |
| Well Inf  | ormation  | _                  |  |   |                                       |  |                                   |   |
|   |   |                    | TOC  | Other                                   | Well Type                             | e: Flusi                                       | hmount X Si                       | tick-Up   |
| Depth to Wat  |   | (feet)             | 8.34   |   | Well Lock                             |  | Yes                               | No  |
| Depth to Bott   |   | (feet)             | 20.22  |   |                                       | Point Marked:                                  | Yes 🔀                             | No  |
| Depth to Prod   |   | (feet)             |  |   | Well Mate                             | ,  | $\sum$ SS $igsquare$ Othe         | er:   |
| Length of Wa  |   | (feet)             | 11:58  |   | Well Dian                             | L  | 2" \( \sum \) Othe                | er:   |
| Volume of W   |   | (gal)              | 1.90   |   | Comment                               | ts:  |                                   |   |
| Three Well V  | olumes:   | (gal)              | \$.70  |   | · · · · · · · · · · · · · · · · · · · | ·····  |                                   |   |
| L   |   |                    |  |   |                                       |  |                                   |   |
| <u></u>   | _   |                    |  |   |                                       |  |                                   |   |
| Purging I   | nformation  | -                  |  |   |                                       |  |                                   |   |
|   |   |                    | -  | <del></del>                             |                                       |  | Conversion Fa                     |   |
| Purging Meth  |   | Bailer             | Peristaltic  | <u></u>                                 | ` <b>k</b>                            | r gal/ft.                                      | 1" ID 2" ID                       | 4" ID 6" ID   |
| Tubing/Bailer   |   | Teflon             | <b>—</b>   | _ · ·                                   | lene othe                             | r of   |                                   |   |
| Sampling Me   |   | Bailer             |  | Grundfos P                              | ump othe                              | r water  | 0.04   0.16                       | 0.66 1.47   |
| Average Pum   | <del></del>   | (ml/min)           | 775  |   |                                       | 1 gallo  | n=3.785L=3785mL                   | _=1337cu. feet  |
| Duration of P   |   | (min)              | 30   |   |                                       | <del></del>                                    |                                   |   |
| Total Volume  | Removed:  | (gal)              | -/.5 Di  | d well go dry?                          | Yes No                                |  |                                   |   |
| YSI 6920 or I   | Horiba U-52 W   | ater Quality M     | eter Us Yes  | No                                      |                                       |  |                                   |   |
| <u> </u>  |   |                    |  |   |                                       |  |                                   |   |
| Time  | DTW   | Amount             | Temp   | pН                                      | ORP                                   | Conductivity                                   | Turbidity                         | DO  |
|   | (feet)  | purged (gal)       | ·c   | (S.U.)                                  | (mV)                                  | (mS/cm)  | (NTU)                             | (mg/L)  |
| 905   | 10.50   |                    | 12 21  | 7.94                                    | <del>- `- `- </del>                   | 1 0  |                                   |   |
|   | 10.30   |                    | 1 //-//  |   | -/21                                  | 3.42   | 22.9                              | .50   |
| 910   | 10.76   |                    | 17.71  | 787                                     | -121                                  | 3.42   | 4.4                               | .02   |
| 910   |   |                    |  | 7 <b>97</b><br>788                      | -102                                  | 3.39<br>137                                    |                                   |   |
| 4   | 10.76   |                    | 17.9)  | 787                                     | -102                                  | 3.39<br>137                                    | 4.9                               | .02   |
| 915   | /0.76<br>19.67<br>82.01                                     |                    | 17.47  | 7 <b>97</b><br>788                      | -767<br>-75<br>-87                    | 3.39   | 4.9                               | .02   |
| 915<br>920<br>925<br>930  | 10.70   |                    | 17.47<br>17.67<br>13.62<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-85                           | 3,39<br>337<br>336                             | 4.4<br>1.2<br>1.0                 | .02   |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.45<br>17.67<br>17.63                            | 788<br>788<br>787<br>786                | -767<br>-75<br>-87                    | 3.39<br>337<br>336<br>336<br>337               | 4.4<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0  |
| 915<br>920<br>928   | 10.70<br>10.67<br>10.58                                     |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336                      | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60                   |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930  | 10.76<br>10.67<br>10.58<br>10.58<br>10.60<br>10.60          |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930<br>935   | 10.76<br>10.67<br>10.58<br>10.58<br>10.60<br>10.60          |                    | 17.47<br>17.67<br>13.63<br>16.03                   | 797<br>788<br>786<br>786                | -102<br>-89<br>-87<br>-83             | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06          | .02<br>.01<br>.0<br>.0<br>.0  |
| 915<br>920<br>925<br>930<br>935   | 10.76<br>10.67<br>10.58<br>10.58<br>10.58<br>10.60<br>10.69 | PCB's              | 17.47<br>17.67<br>17.62<br>16.03<br>(6.05)         | 787<br>788<br>786<br>786<br>786         | -182<br>-85<br>-85<br>-76<br>-25      | 3.39<br>337<br>336<br>336<br>337               | 4.9<br>1.2<br>1.0<br>.06<br>-04   | .02<br>.01<br>.0<br>.0<br>.0<br>.0  |
| Sampling In   | 10.76<br>10.67<br>10.58<br>10.58<br>10.58<br>10.60<br>10.69 | PCB's<br>TCL VOC's | 17.47<br>17.67<br>17.63<br>(1.03<br>(1.03<br>18.03 | 797<br>788<br>786<br>786                | -182<br>-85<br>-85<br>-76<br>-25      | 3.34<br>336<br>336<br>33.7<br>33.7             | 4.9<br>1.2<br>1.0<br>.06<br>-04   | .02<br>.01<br>.0<br>.0<br>.0  |
| Sampling In   | 10.76<br>10.67<br>10.58<br>10.58<br>10.58<br>10.60<br>10.69 | +                  | 17.47<br>17.67<br>17.63<br>(1.03<br>(1.03<br>18.03 | フザラ<br>フザイ<br>フザク<br>フォム<br>フタチ         | -182<br>-85<br>-85<br>-76<br>-25      | 3.35<br>336<br>336<br>33,                      | Y. 9<br>/· 0<br>· 06<br>- 09<br>0 | .02<br>.01<br>.0<br>.0<br>.0<br>.0  |
| Sampling In   | formation:  Method 8082  Method 8260  MW-11-10              | TCL VOC's          | 17.47 17.67 17.63 16.03 18.03                      | フザラ<br>フザイ<br>フザク<br>フォム<br>フタチ         | -182<br>-85<br>-85<br>-76<br>-25      | 2 - 1 liter amber 2 - 40 mL vials              | Y.9<br>/· 0<br>· 06<br>- 09<br>0  | .02<br>.01<br>.0<br>.0<br>.0<br>.0  |
| Sampling In:  EPA SW-846 MEPA | formation:  Method 8082  Method 8260  MW-11-10              | TCL VOC's          | Low de Includir                                    | 7 P P P P P P P P P P P P P P P P P P P | -182<br>-85<br>-85<br>-76<br>-25      | 2 - 1 liter amber 2 - 40 mL vials  Shipped: Dr | Yes Yes                           | .02<br>.01<br>.0<br>.0<br>.0<br>.0<br>.0  |
| Sampling In:  Sample ID: Sample Time:   | formation:  Method 8082  Method 8260  MW-11-10-935          | TCL VOC's          | Low de Includir                                    | TYP  TYP  TYP  TYP  TYP  TYP  TYP  TYP  | -182<br>-85<br>-85<br>-76<br>-25      | 2 - 1 liter amber 2 - 40 mL vials  Shipped: Dr | Yes Yes                           | No No JPS   |
| Sampling In:  Sample ID:  | formation:  Method 8082 Method 8260  MW-11-10  934          | TCL VOC's          | Low de Includir                                    | TYP  TYP  TYP  TYP  TYP  TYP  TYP  TYP  | -182<br>-85<br>-85<br>-76<br>-25      | 2 - 1 liter amber 2 - 40 mL vials  Shipped: Dr | Yes Yes                           | No No Description of the state |

| Sampling Pe                         | rsonnel: T   | Beaumont  |   |  | Date:                                   | 10/18/17  |  |   |
|-------------------------------------|--|---|---|--|---|---|--|---|
| Job Number:                         | 06-03000   | )   | ,   |  | Weather:                                | Sonny.  | 28.                                    |   |
| Well Id.                            | MW-12  |   |   |  | Time In:                                | 730   | Time Out:                              | 820   |
|                                     |  |   |   |  |   |   |  |   |
| Well Inf                            | ormation   | _   |   |  |   |   | _                                      | <b></b>   |
|                                     |  |   | TOC   | Other  | Well Type                               |   | <del> </del>                           | Stick-Up  |
| Depth to Wat                        |  | (feet)  | 8.65  |  | Well Lock                               |   | Yes                                    | No  |
| Depth to Bott<br>Depth to Pro       |  | (feet)  | 19.55   |  | Well Mate                               | Point Marked:   | Yes X<br>SS Oth                        | No  |
| Length of Wa                        |  | (feet)  | 10.90   |  | Well Dian                               | ,   | 2" Oth                                 |   |
| Volume of W                         |  | (gal)   | 1.74  |  | Comment                                 | L.  |  |   |
| Three Well V                        | olumes:  | (gal)   | 5.22  |  |   |   |  |   |
|                                     |  |   |   |  |   |   |  |   |
| _                                   |  | . <del>-                                   </del> |   |  |   |   |  |   |
| Purging I                           | nformation   | _   |   |  |   | <del> </del>  | _                                      |   |
| Dunning 14 st                       |  |   |   |  |   |   | Conversion F                           |   |
| Purging Meth<br>Tubing/Bailer       |  | Baile<br>Teflor                                   | <b>—</b>  | <del></del>  |   | 3~  | 1" ID 2" ID                            | 4" ID 6" ID   |
| Sampling Me                         |  | Baile   | <del></del>   | Polyethyl<br>Grundfos Pi                                   | <u> </u>                                | $\vdash$  | 0.04 0.16                              | 0.66   1.47   |
| Average Pun                         |  |   | ~ I) r  | Grundios Pi  | mp one                                  | <u> </u>  | n=3.785L=3785m                         |   |
| Duration of P                       |  | (min)   | 3.  |  |   | _ r ganc  | II-3.703L-3703III                      | L-1337 Cd. 1661                                     |
| Total Volume                        |  | (gal)   |   | id well go dry?  | Yes No                                  | <b>k</b>  |  |   |
| VSI 6920 or I                       | doriba II-52 M   | Vater Quality M                                   |   | N₀∏  |   |   |  |   |
| 131 0920 01 1                       | IOIDa U-JZ V   | valer Quality iv                                  | ielei OSi Tes   |  |   |   |  |   |
| Time                                | DTW  | Amount  | Temp  | На   | ORP                                     | Conductivity  | Turbidity                              | DO II   |
| Time                                | (feet)   | purged (gal)                                      | °C  | (S.U.)   | (mV)                                    | (mS/cm)   | (NTU)                                  | (mg/L)  |
| 740                                 | 9.40   | pargoa (gar)                                      | 17.37   | 6.51   | 185                                     | 2.74  | 11.2                                   |   |
| 741                                 |  |   | 1 1.71  | 4.7  |   |   |  | 754 11  |
| 15 L                                | 9.14   | ł   | 17.61   | 7.21   | <del></del>                             |   |  | 7.24  |
| 250                                 | 9.68   |   | 17.65   | 7.44   | 153                                     | 2.71  | F.1<br>5.0                             | 1.88  |
| 712                                 | 9.70<br>9.70   |   |   |  | / <u>LY</u><br>/53<br>/Y7               | 2.71  | 8.1                                    | 1.98<br>2.00  |
| 750<br>757<br>800                   | 9.70<br>9.70<br>9.70   |   | 17.6°<br>17.5°Z<br>17.5°I                             | 7.44<br>7.57<br>7.52                                       | / <u>Ly</u><br>/53<br>/47<br>/43        | 2.70<br>2.70<br>2.70<br>2.70  | f.1<br>f.0<br>Y.2<br>23                | 1.41.<br>1.48<br>2.00<br>2.22                       |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 750<br>757<br>800                   | 9.70<br>9.70<br>9.70   |   | 17.6°<br>17.5°Z<br>17.5°I                             | 7.44<br>7.57<br>7.52                                       | / <u>Ly</u><br>/53<br>/47<br>/43        | 2.70<br>2.70<br>2.70<br>2.70  | f.1<br>f.0<br>Y.2<br>23                | 1.41.<br>1.48<br>2.00<br>2.22                       |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 757<br>377<br>870<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 757<br>800<br>800                   | 9.70<br>9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 717<br>717<br>810<br>405            | 9.70<br>9.70<br>9.70<br>9.70<br>9.70   |   | 17.65<br>17.52<br>17.51<br>17.52                      | 7.49<br>7.51<br>7.52<br>7.52                               | / <u>14</u><br>/53<br>/47<br>/43<br>/42 | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | 1.1<br>5.0<br>4.2<br>2.3<br>2.1        | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| 757<br>800<br>800                   | 9.70<br>9.70<br>9.70<br>9.70<br>9.70   | PCB's   | 17.65<br>17.52<br>17.52<br>17.52<br>17.57             | 7.49<br>7.51<br>7.52<br>7.52                               | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.7/<br>2.70<br>2.70<br>2.70<br>2.70  | f.1<br>f.0<br>y.2<br>2.3<br>2.1<br>1.6 | /.41°<br>/.48<br>2.00<br>2.22<br>2.41               |
| Sampling In                         | 9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>formation:   | PCB's<br>TCL VOC's                                | 17.65<br>17.52<br>17.52<br>17.57                      | 7.44<br>7.57<br>7.52<br>7.52<br>7.52                       | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.7/<br>2.70<br>2.70<br>2.70<br>2.73<br>2.70  | f.1<br>f.0<br>y.2<br>2.3<br>2.1<br>1.6 | /. YI'- /. YB 2.00 2.22 2. YI 2.60                  |
| Sampling Interpretation             | 9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>Method 8082<br>Method 8260<br>Field Dup-10             | TCL VOC's   | 17.65<br>17.52<br>17.52<br>17.52<br>17.57             | 7. 44<br>7. 57<br>7. 52<br>7. 52<br>7. 52                  | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.7/<br>2.70<br>2.70<br>2.70<br>2.73<br>2.70  | 7.1<br>5.0<br>7.2<br>2.3<br>2.1<br>1.6 | /. 41°<br>/. 48<br>2. 80<br>2. 22<br>2. 41<br>2. 60 |
| Sampling Interpretation  Sample ID: | 9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>Method 8082<br>Method 8260<br>Field Dup-10<br>MW-12-10 | TCL VOC's<br>017<br>17 Du                         | 17.65<br>17.52<br>17.52<br>17.57<br>Low de s Includir | 7. 44 7.57 7.52 7.52 7.52 7.52 7.52 Mag Naphthalene Yes No | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.70<br>2.70<br>2.70<br>2.75<br>2.75<br>2.76<br>4 - 1 liter amber<br>2 - 40 mL vials<br>Shipped: Dr | Yes Yes Yes                            | /. Y1 · / / / / / / / / / / / / / / / / / /         |
| Sampling Interpretation             | 9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>Method 8082<br>Method 8260<br>Field Dup-10             | TCL VOC's<br>017<br>17 Du                         | 17.65<br>17.52<br>17.52<br>17.57<br>Low de s Includir | 7. 44 7.57 7.52 7.52 7.52 7.52 7.52 Naphthalene            | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.70<br>2.70<br>2.70<br>2.75<br>2.75<br>2.76<br>4 - 1 liter amber<br>2 - 40 mL vials<br>Shipped: Dr | Yes Yes Op-off Pace                    | /. YI' /. YB 2.60 2.22 2. YI 2.60                   |
| Sampling Interpretation  Sample ID: | 9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>9.70<br>Method 8082<br>Method 8260<br>Field Dup-10<br>MW-12-10 | TCL VOC's<br>017<br>17 Du                         | 17.65<br>17.52<br>17.52<br>17.57<br>Low de s Includir | 7. 44 7.57 7.52 7.52 7.52 7.52 7.52 Mag Naphthalene Yes No | /LY<br>/53<br>/47<br>/43<br>/42<br>/46  | 2.70<br>2.70<br>2.70<br>2.75<br>2.75<br>2.76<br>4 - 1 liter amber<br>2 - 40 mL vials<br>Shipped: Dr | Yes Yes Yes                            | /. YI - /. YB - 2.00 - 2.22 - 2. YI - 2.60          |

| Sampling Pe                | ersonnel: T f                          | Beaumont   |                                       |                     | Date:                 | 10/18/17                 |                  |               |
|----------------------------|--|--|---------------------------------------|---------------------|-----------------------|--------------------------|------------------|---------------|
| Job Number:                | : 06-03000                             |  |                                       |                     | Weather               |                          | 42               |               |
| Well Id.                   | MW-20                                  |  |                                       |                     | Time In:              | 900                      | Time Out:        | 935           |
|                            |  |  |                                       |                     |                       |                          |                  |               |
| Well Int                   | formation                              | -  | T00                                   | 00                  | 144 - II. T           | <b></b>                  |                  |               |
| Depth to Wa                |  | /fact\   | **TOC                                 | Other               | Well Typ<br>Well Loc  |                          | <del>- 3</del>   | tick-Up       |
| Depth to Wa                |  | (feet)   | 22.60                                 |                     |                       | :кеа:<br>g Point Marked: | Yes<br>Yes       | No No         |
| Depth to Pro               |  | (feet)   | 22.00                                 |                     | Well Ma               |                          | SSOthe           |               |
| Length of Wa               | <del></del>                            | (feet)   | 13.82                                 |                     | Well Dia              |                          | 2" Othe          |               |
| Volume of W                |  | (gal)  | 2.21                                  |                     | Commer                |                          |                  |               |
| Three Well V               |  | (gal)  | 663                                   |                     |                       |                          |                  |               |
|                            |  |  |                                       |                     |                       |                          |                  |               |
|                            |  |  |                                       |                     |                       |                          |                  |               |
| Purging I                  | Information                            |  |                                       |                     |                       | <b>,</b>                 |                  |               |
| II                         |  | <del></del> 1                                    | <del></del>                           | K 7                 |                       | <u> </u>                 | Conversion Fa    |               |
| Purging Meth               |  | Bailer   |                                       | <b>~</b>            | ` <b></b>             | 9~"''                    | 1" ID 2" ID      | 4" ID 6" ID   |
| Tubing/Bailer              |  | Teflon   |                                       | k                   | ·                     |                          | 221 240          |               |
| Sampling Me                | ··· ·· · · · · · · · · · · · · · · · · | Bailer   | Peristaltio                           | Grundfos P          | oth                   |                          | <del></del>      | 0.66   1.47   |
| Average Pun                |  | (ml/min)   | 421                                   |                     |                       | 1 gallo                  | on=3.785L=3785mL | =1337cu. feet |
| Duration of P Total Volume |  | (min)  | 70 D                                  | المسلمة المساحد     | V                     |                          |                  |               |
|                            |  |  |                                       | oid well go dry?    | Yes N                 | 0 70                     |                  |               |
| YSI 6920 or I              | Horiba U-52 W                          | later Quality M                                  | eter Us Yes                           | No No               |                       |                          |                  |               |
|                            |  |  |                                       |                     |                       |                          |                  |               |
| Time                       | DTW                                    | Amount   | Temp                                  | рН                  | ORP                   | Conductivity             | Turbidity        | DO            |
| <b> </b>                   | (feet)                                 | purged (gal)                                     | °C                                    | (S.U.)              | (mV)                  | (mS/cm)                  | (NTU)            | (mg/L)        |
| 950                        | 887                                    | <b>_</b>   | 1661                                  | 7.47                | -/57                  | 9.17                     | 30.5             | 1.38          |
| 908                        | 988                                    | <del> </del>                                     | 1696                                  | 7.31                | -/77                  | 9.80                     | 23.6             |               |
| 910                        | 868                                    | <del> </del>                                     | 1641                                  | 7.30                | - /83                 | 9.71                     | 13.2             | .03           |
| 915                        | 89%                                    | <del>                                     </del> | 16.40                                 | 7.30                | -191                  | 9.60                     | /1.3             |               |
| 925                        | 888                                    |  | 14.38                                 | 7.29                |                       |                          | /0.0             | 0             |
| 930                        | 888                                    | <u> </u>   | 16.39                                 | 7.25                | -1 <b>93</b><br>- 194 | 950                      | 9.9              | <u> </u>      |
| 750                        | 800                                    |  | 16.39                                 | 1124                | 117                   | 9.58                     | 9.2              |               |
|                            | <del> </del>                           | <del>                                     </del> |                                       | <del> </del>        |                       |                          |                  |               |
|                            |  |  | <u> </u>                              | <del> </del>        |                       |                          |                  |               |
|                            |  | <b>†</b>   |                                       |                     |                       |                          |                  |               |
|                            |  |  |                                       |                     |                       |                          |                  |               |
|                            |  |  | <u> </u>                              |                     |                       |                          |                  |               |
| Sampling In                | formation:                             |  |                                       |                     |                       |                          |                  |               |
|                            |  |  |                                       |                     |                       |                          |                  |               |
| EPA SW-846 I               | Method 8082                            | PCB's  | Low de                                | etection limit of 0 | 05 nob                | 2 - 1 liter amber        | Yes              | No            |
| EPA SW-846                 |  | TCL VOC's  |                                       | ng Naphthalene      | .00 pp0               | 2 - 40 mL vials          | Yes              | No X          |
|                            |  |  | · · · · · · · · · · · · · · · · · · · |                     |                       | 2 10111211111            |                  | '```````      |
|                            |  |  |                                       |                     |                       |                          |                  |               |
| Sample ID:                 | MW-20-101                              | 7 Du   | plicate?                              | Yes No X            | 1                     | Shipped: Di              | op-off Pace      | Courier       |
| Sample ID:<br>Sample Time: |  |  | •                                     | Yes No No No        |                       | • •                      | · •              | Courier       |
| Sample Time:               | 930                                    | MS   | S/DMS?                                | Yes No              |                       | F                        | ed-Ex 🔀 U        | IPS           |
| 11                         | 930                                    |  | S/DMS?                                | Yes No              |                       |                          | · •              | IPS           |

| Sampling Per  | rsonnel: TE   | Beaumont                                  |                                      |                                       | Date:  | 10/19/17   |  |                       |
|---|---|---|--------------------------------------|---------------------------------------|--|--|--|-----------------------|
| Job Number:   |   |   |                                      |                                       | Weathe   |  | 62   | ,                     |
| Well Id.  | MW-21   | -   |                                      |                                       | Time In:   | 940  | Time Out:  | 1020                  |
| 770114.   |   |   | н                                    |                                       | THIC III.  | /10  | Time Out.  | 1020                  |
| Depth to Wat<br>Depth to Bott<br>Depth to Prod<br>Length of Wat<br>Volume of Wat<br>Three Well V              | om:<br>duct:<br>iter Column:<br>ater in Well:           | (feet) (feet) (feet) (gal)                | TOC <b>9.70</b> 21.85  (3)5  210 (30 | Other                                 | Well Typ<br>Well Loo<br>Measurin<br>Well Ma<br>Well Dia<br>Comme | cked:<br>g Point Marked:<br>terial: PVC<br>meter: 1" | shmount S<br>Yes<br>Yes<br>SS Oth<br>2" Oth        |                       |
| Purging Meth<br>Tubing/Bailer<br>Sampling Me<br>Average Pum<br>Duration of P<br>Total Volume<br>YSI 6920 or h | Material:<br>thod:<br>ping Rate:<br>umping:<br>Removed: | Bailer Teflon Bailer (ml/min) (min) (gal) |                                      | Polyethy                              | lene oth   | er of water 1 gallo                                  | Conversion F 1" ID 2" ID 0.04 0.16 on=3.785L=3785m | 4" ID 6" ID 0.66 1.47 |
| п =:  |   |   |                                      |                                       |  |  |  |                       |
| Time  | DTW<br>(feet)   | Amount                                    | Temp<br>°C                           | рН<br>(S.U.)                          | ORP  | Conductivity   | Turbidity  | DO (marth)            |
| 940   | /0.03   | purged (gal)                              | 11.12                                | 7.M                                   | (mV)   | (mS/cm)  | (NTU)<br>31.L                                      | (mg/L)                |
| 94  | 10.31   |   | 17.3                                 | 7.48                                  | ~75  | 2.55   | 24.1   | 70                    |
| 910   | 10.52   |   | 17.43                                | 7.47                                  | -72  | 2.47   | 21.6   | 6                     |
| 915   | 10.55   |   | 17.48                                | 7.48                                  | -68  | 2.95   | 20.5   | 0                     |
| 1000  | 10.59   |   | 17.55                                | 7.48                                  | -64  | 2.94   | 19.4   | 0                     |
| 1005  | 10.62   |   | 17.59                                | 7.48                                  | -63  | 2.44   | 18.9   | 0                     |
| 1010  | 10.70   |   | 17.66                                | 7.47                                  | -60  | 2.95   | 17.6   | 0                     |
|   |   |   |                                      |                                       |  |  |  |                       |
|   |   |   |                                      |                                       |  |  |  |                       |
|   |   |   |                                      |                                       |  |  |  |                       |
|   |   |   |                                      | ļ                                     |  |  |  |                       |
|   |   |   |                                      | <u> </u>                              |  |  |  |                       |
| Sampling Inf  | ormation:   |   |                                      |                                       |  |  |  |                       |
| EPA SW-846 N<br>EPA SW-846 N  |   | PCB's<br>TCL VOC's                        |                                      | tection limit of 0.<br>ng Naphthalene | 05 ppb   | 2 - 1 liter amber<br>2 - 40 mL vials                 | Yes<br>Yes   | No No                 |
| Sample ID:<br>Sample Time:  | MW-21-101<br>/Ο (υ                                      |   |                                      | Yes No No                             |  | • •  | <u> </u>   | Courier               |
| Comments/No   | otes: NO  | Sheen ro                                  | Hen egg                              | ode~                                  |  | Laboratory:  | PACE Ana<br>Greensbu                               | •                     |

| Sampling Pe   | rsonnel: T      | Beaumont         |              |                     | Date:               | 1919/17           |                |           |
|---------------|-----------------|------------------|--------------|---------------------|---------------------|-------------------|----------------|-----------|
| Job Number:   |                 |                  |              |                     | Weathe              |                   | (oʻ            |           |
| Well Id.      | MW-24           |                  |              |                     |                     | 1                 |                | 000       |
| vveii iu.     | 14144-74        |                  |              |                     | Time In:            | 8/5               | Time Out:      | 822       |
| Well In       | formation       |                  |              |                     |                     |                   | TOPESCO.       |           |
| AACH III      | omation         | •                | TOC          | Other               | Mail Tu             | no. Flue          | h              | N         |
| Depth to Wa   | tor             | (feet)           | 883          | Other               | Well Typ<br>Well Lo |                   | hmount Yes     | Stick-Up  |
| Depth to Bot  |                 | (feet)           | 24.25        |                     |                     | g Point Marked:   | Yes            | No No     |
| Depth to Pro  |                 | (feet)           | 24.20        |                     | Well Ma             | -                 | SS Oth         |           |
| Length of Wa  |                 | (feet)           | 15.42        |                     | Well Dia            |                   | 2" Oth         |           |
| Volume of W   |                 | (gal)            | 2.47         |                     | Comme               | i                 |                |           |
| Three Well V  |                 | (gal)            | 7.41         |                     |                     |                   |                |           |
|               |                 | (9)              |              |                     |                     |                   |                |           |
|               |                 |                  |              |                     |                     |                   |                |           |
| Purging I     | nformation      |                  |              |                     |                     |                   |                |           |
|               |                 | •                |              |                     |                     |                   | Conversion F   | actors    |
| Purging Meth  | nod:            | Bailer           | Peristaltio  | Grundfos P          | ump oth             | er gal/ft.        | 1" ID 2" ID    |           |
| Tubing/Bailer |                 | Teflon           | <b></b> -    | <u> </u>            | · 1                 |                   |                |           |
| Sampling Me   |                 | Bailer           |              | <u> </u>            | ,                   | T                 | 0.04 0.16      | 0.66 1.47 |
| Average Pun   | nping Rate:     | (ml/min)         | 175          | <b>V</b>            | . —                 | 1 gallo           | n=3.785L=3785m | ·         |
| Duration of F |                 | (min)            | 3.           |                     |                     | <u> </u>          |                |           |
| Total Volume  | Removed:        | (gal)            | - 1.5 D      | id well go dry?     | Yes                 | 10 10             |                |           |
| YSI 6920 or   | Horiba U-52 W   | ater Quality M   | eterlis Ves  | No                  |                     | <del></del>       |                |           |
| 101002001     | TIOTIDA O-32 VV | ater duality ivi | eter O3 res  |                     |                     |                   |                |           |
| Time          | I DTW           | Amount           | Temp         | рН                  | ORP                 | Conductivity      | Turbidity      | DO        |
|               | (feet)          | purged (gal)     | °C           | (S.U.)              | (mV)                | (mS/cm)           | (NTU)          | (mg/L)    |
| 811           | 8.98            | , <u> </u>       | 1446         | 6.57                | -66                 | /2.2              | 21-2           | 1.6T      |
| 810           | 8.96            |                  | 15.80        | 720                 | -159                | 10-1              | 15.9           | . 74      |
| 825           | 8.96            |                  | 15.93        | 7.19                | -171                | 10.0              | 12.9           | ,43       |
| 830           | 8.96            |                  | 16.02        | 7.23                | -184                | 10.0              | 4.6            | 121       |
| 835           | 8.96            |                  | 16.0B        | 7.24                | -/88                | 10.0              | ,9             | .08       |
| 840           | 8.96            |                  | 16.12        | 7.24                | - 189               | 10.0              | , 1            | ,02       |
| 841           | 7.96            |                  | 16.15        | 724                 | -192                | 10.0              | 0              | 0         |
|               |                 |                  |              |                     |                     |                   |                |           |
|               |                 | !<br>!           |              |                     |                     |                   |                |           |
|               |                 |                  |              |                     |                     |                   |                |           |
|               | <b></b>         |                  |              |                     |                     |                   |                |           |
| Ш             |                 | <u> </u>         | <u> </u>     | <u> </u>            |                     |                   |                |           |
|               |                 |                  |              |                     | <del> </del>        |                   |                |           |
| Sampling In   | formation:      |                  |              |                     |                     |                   |                |           |
|               |                 |                  |              |                     |                     |                   |                |           |
| EPA SW-846    |                 | PCB's            |              | tection limit of 0. | 05 ppb              | 2 - 1 liter amber | Yes            | No ☐      |
| EPA SW-846 I  | Method 8260     | TCL VOC's        | Includii     | ng Naphthalene      |                     | 2 - 40 mL vials   | Yes            | ∐ No⊠     |
|               |                 |                  |              |                     | ŀ                   |                   |                | <b> 1</b> |
| Sample ID:    | MW-24-101       |                  | •            | Yes No              |                     | Shipped: [        |                | e Courier |
| Sample Time:  | 895             | MS               | S/DMS?       | Yes No X            |                     |                   | Fed-Ex         | UPS       |
| Comments/N    | otes:           | an cha           | 11           | 1                   |                     | Laboratory:       | PACE An        | alytical  |
|               | <del></del>     | no sheen         | rotten egg c | ar                  |                     |                   | Greensbu       | •         |
|               |                 |                  |              |                     |                     |                   |                |           |

## Appendix B

**Groundwater Monitoring Laboratory Data** 



(724)850-5600



May 02, 2017

Mr. Mark Boorady Groundwater & Environmental Services, Inc. 5 Technology Place, Suite 4 East Syracuse, NY 13057

RE: Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

### Dear Mr. Boorady:

Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Pachel D Unistner

Rachel Christner rachel.christner@pacelabs.com 724-850-5611 Project Manager

Enclosures

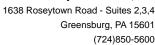
CC: GES Reports - Syracuse, Groundwater & Environmental Services, Inc.

Ms. Cheryl Golden-Walts, Groundwater & Environmental Services. Inc.

Chandler Swartzendruber, Groundwater & Environmental

Services, Inc.







### **CERTIFICATIONS**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

**Arkansas Certification** 

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

**Delaware Certification** 

Florida/TNI Certification #: E87683 Georgia Certification #: C040

Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification

Iowa Certification #: 391 Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification Missouri Certification #: 235 Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14 Nevada Certification #: PA014572015-1 New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification #: PA01457

New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Oregon/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282 South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8 Utah/TNI Certification #: PA014572015-5 USDA Soil Permit #: P330-14-00213 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868

West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

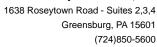


### **SAMPLE SUMMARY**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

| Lab ID      | Sample ID                      | Matrix | Date Collected | Date Received  |
|-------------|--------------------------------|--------|----------------|----------------|
| 30216514001 | MW-1-0417                      | Water  | 04/18/17 12:40 | 04/19/17 09:45 |
| 30216514002 | MW-6-0417                      | Water  | 04/18/17 13:20 | 04/19/17 09:45 |
| 30216514003 | MW-9-0417                      | Water  | 04/18/17 11:50 | 04/19/17 09:45 |
| 30216514004 | MW-11-0417                     | Water  | 04/18/17 11:10 | 04/19/17 09:45 |
| 30216514005 | MW-12-0417                     | Water  | 04/18/17 10:30 | 04/19/17 09:45 |
| 30216514006 | MW-20-0417                     | Water  | 04/18/17 09:00 | 04/19/17 09:45 |
| 30216514007 | MW-21-0417                     | Water  | 04/18/17 09:40 | 04/19/17 09:45 |
| 30216514008 | MW-24-0417                     | Water  | 04/18/17 08:20 | 04/19/17 09:45 |
| 30216514009 | Field Duplicate-0417           | Water  | 04/18/17 00:01 | 04/19/17 09:45 |
| 30216514010 | MW-6-Matrix Spike-0417         | Water  | 04/18/17 13:20 | 04/19/17 09:45 |
| 30216514011 | MW-6-Duplicate Matrix Spike-04 | Water  | 04/18/17 13:20 | 04/19/17 09:45 |



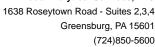


### **SAMPLE ANALYTE COUNT**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

| Lab ID      | Sample ID                      | Method  | Analysts | Analytes<br>Reported | Laboratory |
|-------------|--------------------------------|---------|----------|----------------------|------------|
| 30216514001 | MW-1-0417                      | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514002 | MW-6-0417                      | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514003 | MW-9-0417                      | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514004 | MW-11-0417                     | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514005 | MW-12-0417                     | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514006 | MW-20-0417                     | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514007 | MW-21-0417                     | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514008 | MW-24-0417                     | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514009 | Field Duplicate-0417           | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514010 | MW-6-Matrix Spike-0417         | EPA 608 | SJG      | 9                    | PASI-PA    |
| 30216514011 | MW-6-Duplicate Matrix Spike-04 | EPA 608 | SJG      | 9                    | PASI-PA    |





Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Method: EPA 608
Description: 608 GCS PCBs

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** May 02, 2017

### **General Information:**

11 samples were analyzed for EPA 608. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

### **Sample Preparation:**

The samples were prepared in accordance with EPA 608 SF with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 256168

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

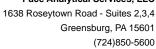
### **Additional Comments:**

**Analyte Comments:** 

QC Batch: 256168

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- MW-1-0417 (Lab ID: 30216514001)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)





Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Method: EPA 608
Description: 608 GCS PCBs

Client: Groundwater & Environmental Services, Inc. (Syracuse)

Date: May 02, 2017

Analyte Comments: QC Batch: 256225

2c: The result is reported from the front column due to low response for this analyte in the CCVs on the rear column. The lower of

the two results is reported.

MW-9-0417 (Lab ID: 30216514003)
PCB-1221 (Aroclor 1221)

This data package has been reviewed for quality and completeness and is approved for release.



Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Date: 05/02/2017 11:00 AM

| Sample: MW-1-0417                                  | Lab ID: 3        | 0216514001   | Collected       | : 04/18/17      | 12:40    | Received: 04/   | 19/17 09:45 Ma                   | atrix: Water |             |
|--|------------------|--------------|-----------------|-----------------|----------|-----------------|----------------------------------|--------------|-------------|
|  |                  |              | Report          |                 |          |                 |                                  |              |             |
| Parameters   | Results —        | Units        | Limit           | MDL .           | DF       | Prepared        | Analyzed                         | CAS No.      | Qua         |
| 608 GCS PCBs                                       | Analytical M     | ethod: EPA 6 | 08 Preparat     | ion Method      | d: EPA 6 | 608 SF          |                                  |              |             |
| PCB-1016 (Aroclor 1016)                            | 0.97 U           | ug/L         | 0.97            | 0.019           | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 12674-11-2   | 1c,CH<br>IH |
| PCB-1221 (Aroclor 1221)                            | 6.8J             | ug/L         | 9.7             | 0.60            | 10       | 04/24/17 13:04  | 05/01/17 18:45                   | 11104-28-2   | 1c          |
| PCB-1232 (Aroclor 1232)                            | 0.97 U           | ug/L         | 0.97            | 0.0096          | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 11141-16-5   | 1c,CH       |
| PCB-1242 (Aroclor 1242)                            | 0.97 U           | ug/L         | 0.97            | 0.028           | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 53469-21-9   | 1c,C⊦       |
| PCB-1248 (Aroclor 1248)                            | 0.97 U           | ug/L         | 0.97            | 0.023           | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 12672-29-6   | 1c,CF       |
| PCB-1254 (Aroclor 1254)                            | 0.97 U           | ug/L         | 0.97            | 0.024           | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 11097-69-1   | 1c,CF       |
| PCB-1260 (Aroclor 1260)                            | 0.97 U           | ug/L         | 0.97            | 0.0095          | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 11096-82-5   | 1c          |
| Surrogates   |                  |              |                 |                 |          |                 |                                  |              |             |
| Tetrachloro-m-xylene (S)                           | 105              | %            | 32-101          |                 | 1        | 04/24/17 13:04  | 04/28/17 18:32                   |              | CH,S7       |
| Decachlorobiphenyl (S)                             | 60               | %            | 10-109          |                 | 1        | 04/24/17 13:04  | 04/28/17 18:32                   | 2051-24-3    | СН          |
| Sample: MW-6-0417                                  | Lab ID: 3        | 0216514002   | Collected       | : 04/18/17      | 13:20    | Received: 04/   | 19/17 09:45 Ma                   | atrix: Water |             |
|  |                  |              | Report          |                 |          |                 |                                  |              |             |
| Parameters   | Results          | Units        | Limit           | MDL             | DF       | Prepared        | Analyzed                         | CAS No.      | Qua         |
|  |                  |              |                 |                 |          |                 |                                  |              |             |
| 608 GCS PCBs                                       | Analytical M     | ethod: EPA 6 | 08 Preparat     | ion Method      | d: EPA 6 | 608 SF          |                                  |              |             |
| PCB-1016 (Aroclor 1016)                            | 0.98 U           | ug/L         | 0.98            | 0.019           | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 12674-11-2   | CH,IH<br>M1 |
| PCB-1221 (Aroclor 1221)                            | 0.98 U           | ug/L         | 0.98            | 0.061           | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 11104-28-2   | CH          |
| PCB-1232 (Aroclor 1232)                            | 0.98 U           | ug/L         | 0.98            | 0.0097          | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 11141-16-5   | CH          |
| PCB-1242 (Aroclor 1242)                            | 0.98 U           | ug/L         | 0.98            | 0.028           | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 53469-21-9   | CH          |
| PCB-1248 (Aroclor 1248)                            | 0.98 U           | ug/L         | 0.98            | 0.023           | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 12672-29-6   | CH          |
| PCB-1254 (Aroclor 1254)                            | 0.98 U           | ug/L         | 0.98            | 0.025           | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 11097-69-1   | CH          |
| PCB-1260 (Aroclor 1260)<br>Surrogates              | 0.98 U           | ug/L         | 0.98            | 0.0096          | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 11096-82-5   | M1          |
| Tetrachloro-m-xylene (S)                           | 73               | %            | 32-101          |                 | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 877-09-8     | CH          |
| Decachlorobiphenyl (S)                             | 68               | %            | 10-109          |                 | 1        | 04/25/17 08:32  | 04/28/17 19:33                   | 2051-24-3    | СН          |
| Sample: MW-9-0417                                  | Lab ID: 3        | 0216514003   | Collected       | : 04/18/17      | ' 11:50  | Received: 04/   | 19/17 09:45 Ma                   | atrix: Water |             |
| Comments: • Received 1L glas                       | ss amber broken. |              |                 |                 |          |                 |                                  |              |             |
| Parameters   | Results          | Units        | Report<br>Limit | MDL             | DF       | Prepared        | Analyzed                         | CAS No.      | Qua         |
| 608 GCS PCBs                                       | Analytical M     | ethod: EPA 6 | 08 Preparat     | ion Method      | d: EPA 6 |                 |                                  |              |             |
|  | -                |              |                 | 0.019           |          |                 | 04/28/17 19:54                   | 1267/ 11 2   | CH,IH       |
| PCB-1016 (Aroclor 1016)<br>PCB-1221 (Aroclor 1221) | 0.98 U<br>16.2   | ug/L<br>ug/L | 0.98<br>9.8     | 0.019           | 1<br>10  |                 | 05/01/17 19:47                   |              | 2c          |
| PCB-1221 (Aroclor 1221) PCB-1232 (Aroclor 1232)    | 0.98 U           | ug/L<br>ug/L | 0.98            | 0.0097          | 10       |                 | 04/28/17 19:54                   |              | CH          |
| PCB-1232 (Aroclor 1232)<br>PCB-1242 (Aroclor 1242) | 0.98 U           | -            |                 | 0.0097          |          |                 | 04/28/17 19:54                   |              | СН          |
| 1 UD-1242 (MIUUIUI 1242)                           | 0.98 U           | ug/L         | 0.98            |                 | 1        |                 |                                  |              |             |
|  | U.98 U           | ug/L         | 0.98            | 0.023           | 1        |                 | 04/28/17 19:54                   |              | CH          |
| PCB-1248 (Aroclor 1248)                            |                  | /1           | 0.00            | 0.00E           | 4        | 0.4/2E/47.00.00 | 04/20/47 40.54                   | 11007 60 4   |             |
| PCB-1248 (Aroclor 1248)<br>PCB-1254 (Aroclor 1254) | 0.98 U           | ug/L         | 0.98            | 0.025           | 1        |                 | 04/28/17 19:54                   |              | СН          |
| PCB-1248 (Aroclor 1248)                            |                  | ug/L<br>ug/L | 0.98<br>0.98    | 0.025<br>0.0096 | 1<br>1   |                 | 04/28/17 19:54<br>04/28/17 19:54 |              | СН          |

### **REPORT OF LABORATORY ANALYSIS**

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Project: National Grid - Buffalo Dewey

30216514 Pace Project No.:

Date: 05/02/2017 11:00 AM

Sample: MW-9-0417 Lab ID: 30216514003 Collected: 04/18/17 11:50 Received: 04/19/17 09:45 Matrix: Water Comments: • Received 1L glass amber broken. Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF Surrogates Decachlorobiphenyl (S) 70 10-109 04/25/17 08:32 04/28/17 19:54 2051-24-3 СН Sample: MW-11-0417 Lab ID: 30216514004 Collected: 04/18/17 11:10 Received: 04/19/17 09:45 Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF PCB-1016 (Aroclor 1016) 0.97 U ug/L 0.97 0.019 04/25/17 08:32 04/28/17 22:18 12674-11-2 CH,IH PCB-1221 (Aroclor 1221) 0.97 U ug/L 0.97 0.060 1 04/25/17 08:32 04/28/17 22:18 11104-28-2 CH PCB-1232 (Aroclor 1232) 0.97 U ug/L 0.97 0.0096 1 04/25/17 08:32 04/28/17 22:18 11141-16-5 CH PCB-1242 (Aroclor 1242) 0.97 U ug/L 0.97 0.028 1 04/25/17 08:32 04/28/17 22:18 53469-21-9 CH 04/28/17 22:18 12672-29-6 CH PCB-1248 (Aroclor 1248) 0.97 U ug/L 0.97 0.023 1 04/25/17 08:32 0.97 U PCB-1254 (Aroclor 1254) 0.024 04/25/17 08:32 CH ug/L 0.97 1 04/28/17 22:18 11097-69-1 0.97 U 0.0095 04/25/17 08:32 04/28/17 22:18 11096-82-5 PCB-1260 (Aroclor 1260) ug/L 0.97 1 Surrogates Tetrachloro-m-xylene (S) 69 % 32-101 1 04/25/17 08:32 04/28/17 22:18 877-09-8 СН Decachlorobiphenyl (S) 79 % 10-109 04/25/17 08:32 04/28/17 22:18 2051-24-3 Sample: MW-12-0417 Lab ID: 30216514005 Collected: 04/18/17 10:30 Received: 04/19/17 09:45 Matrix: Water Report **Parameters** Results Units Limit MDL DF Prepared Analyzed CAS No. Qual 608 GCS PCBs Analytical Method: EPA 608 Preparation Method: EPA 608 SF PCB-1016 (Aroclor 1016) 0.98 U 0.98 ug/L 0.019 04/25/17 08:32 04/28/17 22:38 12674-11-2 CH,IH PCB-1221 (Aroclor 1221) 0.98 U ug/L 0.98 0.061 04/25/17 08:32 04/28/17 22:38 11104-28-2 CH 1 PCB-1232 (Aroclor 1232) 0.98 U ug/L 0.98 0.0097 1 04/25/17 08:32 04/28/17 22:38 11141-16-5 CH PCB-1242 (Aroclor 1242) 0.98 U ug/L 0.98 0.028 1 04/25/17 08:32 04/28/17 22:38 53469-21-9 CH PCB-1248 (Aroclor 1248) 0.98 U ug/L 0.98 0.023 04/25/17 08:32 04/28/17 22:38 12672-29-6 CH 1 PCB-1254 (Aroclor 1254) 0.98 U 0.98 0.025 04/25/17 08:32 04/28/17 22:38 11097-69-1 ug/L CH PCB-1260 (Aroclor 1260) 0.98 U 0.98 0.0096 04/25/17 08:32 04/28/17 22:38 11096-82-5 ug/L Surrogates Tetrachloro-m-xylene (S) % 32-101 04/25/17 08:32 04/28/17 22:38 877-09-8 СН 73 1 10-109 Decachlorobiphenyl (S) 86 % 04/25/17 08:32 04/28/17 22:38 2051-24-3

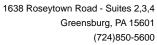


Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Date: 05/02/2017 11:00 AM

| Sample: MW-20-0417       | Lab ID: 30    | 0216514006    | Collected  | l: 04/18/17 | 09:00    | Received: 04/  | 19/17 09:45 Ma | atrix: Water     |       |
|--------------------------|---------------|---------------|------------|-------------|----------|----------------|----------------|------------------|-------|
|                          |               |               | Report     |             |          |                |                |                  |       |
| Parameters               | Results —     | Units         | Limit      | MDL         | DF       | Prepared       | Analyzed       | CAS No.          | Qual  |
| 608 GCS PCBs             | Analytical Me | ethod: EPA 60 | 08 Prepara | tion Metho  | d: EPA 6 | 608 SF         |                |                  |       |
| PCB-1016 (Aroclor 1016)  | 0.98 U        | ug/L          | 0.98       | 0.019       | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 12674-11-2       | CH,IH |
| PCB-1221 (Aroclor 1221)  | 0.98 U        | ug/L          | 0.98       | 0.061       | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 11104-28-2       | CH    |
| PCB-1232 (Aroclor 1232)  | 0.98 U        | ug/L          | 0.98       | 0.0097      | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 11141-16-5       | CH    |
| PCB-1242 (Aroclor 1242)  | 0.98 U        | ug/L          | 0.98       | 0.028       | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 53469-21-9       | CH    |
| PCB-1248 (Aroclor 1248)  | 0.98 U        | ug/L          | 0.98       | 0.023       | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 12672-29-6       | CH    |
| PCB-1254 (Aroclor 1254)  | 0.98 U        | ug/L          | 0.98       | 0.025       | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 11097-69-1       | CH    |
| PCB-1260 (Aroclor 1260)  | 0.98 U        | ug/L          | 0.98       | 0.0096      | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 11096-82-5       |       |
| Surrogates               |               |               |            |             |          |                |                |                  |       |
| Tetrachloro-m-xylene (S) | 69            | %             | 32-101     |             | 1        | 04/25/17 08:32 |                |                  | CH    |
| Decachlorobiphenyl (S)   | 85            | %             | 10-109     |             | 1        | 04/25/17 08:32 | 04/28/17 22:59 | 2051-24-3        |       |
| Sample: MW-21-0417       | Lab ID: 30    | 0216514007    | Collected  | l: 04/18/17 | 7 09:40  | Received: 04/  | 19/17 09:45 Ma | atrix: Water     |       |
| •                        |               |               | Report     |             |          |                |                |                  |       |
| Parameters               | Results       | Units         | Limit      | MDL         | DF       | Prepared       | Analyzed       | CAS No.          | Qual  |
| 608 GCS PCBs             | Analytical Me | ethod: EPA 60 | 08 Prepara | tion Metho  | d: EPA 6 | 608 SF         |                |                  |       |
| PCB-1016 (Aroclor 1016)  | 0.97 U        | ug/L          | 0.97       | 0.019       | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 12674-11-2       | CH,IH |
| PCB-1221 (Aroclor 1221)  | 0.97 U        | ug/L          | 0.97       | 0.061       | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 11104-28-2       | CH    |
| PCB-1232 (Aroclor 1232)  | 0.97 U        | ug/L          | 0.97       | 0.0096      | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 11141-16-5       | CH    |
| PCB-1242 (Aroclor 1242)  | 0.97 U        | ug/L          | 0.97       | 0.028       | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 53469-21-9       | CH    |
| PCB-1248 (Aroclor 1248)  | 0.97 U        | ug/L          | 0.97       | 0.023       | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 12672-29-6       | CH    |
| PCB-1254 (Aroclor 1254)  | 0.97 U        | ug/L          | 0.97       | 0.024       | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 11097-69-1       | CH    |
| PCB-1260 (Aroclor 1260)  | 0.97 U        | ug/L          | 0.97       | 0.0095      | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 11096-82-5       |       |
| Surrogates               |               | _             |            |             |          |                |                |                  |       |
| Tetrachloro-m-xylene (S) | 64            | %             | 32-101     |             | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 877-09-8         | CH    |
| Decachlorobiphenyl (S)   | 73            | %             | 10-109     |             | 1        | 04/25/17 08:32 | 04/28/17 23:19 | 2051-24-3        |       |
| Sample: MW-24-0417       | Lab ID: 30    | 0216514008    | Collected  | l: 04/18/17 | 7 08:20  | Received: 04/  | 19/17 09:45 Ma | atrix: Water     |       |
| ·                        |               |               | Report     |             |          |                |                |                  |       |
| Parameters               | Results       | Units         | Limit      | MDL         | DF       | Prepared       | Analyzed       | CAS No.          | Qual  |
| 608 GCS PCBs             | Analytical Me | ethod: EPA 60 | D8 Prepara | tion Metho  | d: EPA ( | 608 SF         |                | ,                | ,     |
| PCB-1016 (Aroclor 1016)  | 0.98 U        | ug/L          | 0.98       | 0.019       | 1        | 04/25/17 08:32 | 04/28/17 23:40 | 12674-11-2       | CH,IH |
| PCB-1221 (Aroclor 1221)  | 0.98 U        | ug/L          | 0.98       | 0.061       | 1        |                | 04/28/17 23:40 |                  | CH    |
| PCB-1232 (Aroclor 1232)  | 0.98 U        | ug/L          | 0.98       | 0.0097      | 1        |                | 04/28/17 23:40 |                  | СН    |
| PCB-1242 (Aroclor 1242)  | 0.98 U        | ug/L          | 0.98       | 0.028       | 1        |                | 04/28/17 23:40 |                  | СН    |
| PCB-1248 (Aroclor 1248)  | 0.98 U        | ug/L          | 0.98       | 0.023       | 1        |                | 04/28/17 23:40 |                  | CH    |
| PCB-1254 (Aroclor 1254)  | 0.98 U        | ug/L          | 0.98       | 0.025       | 1        |                | 04/28/17 23:40 |                  | CH    |
| PCB-1260 (Aroclor 1260)  | 0.98 U        | ug/L          | 0.98       | 0.0096      | 1        |                | 04/28/17 23:40 |                  |       |
| Surrogates               |               | J             |            |             |          |                |                | · - <del>-</del> |       |
|                          | 77            | %             | 32-101     |             | 1        | 04/25/17 08:32 | 04/28/17 23:40 | 877-00-8         | CH    |
| Tetrachloro-m-xylene (S) | 11            | 70            | 32-101     |             |          | 04/23/17 00.32 | 07/20/11 20.70 | 011 05 0         | OH    |



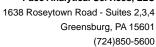


Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Date: 05/02/2017 11:00 AM

| Lab ID:          | 30216514009  | Collected    | : 04/18/17      | 00:01   | Received: 04/  | 19/17 09:45 Ma                   | atrix: Water           |          |
|------------------|--|--------------|-----------------|---------|--|----------------------------------|------------------------|----------|
|                  |  | Report       |                 |         |  |                                  | 0.0                    |          |
| Results -        | Units -  | Limit —      | MDL             | DF      | Prepared   | Analyzed                         | CAS No.                | Qual     |
| Analytical       | Method: EPA 6  | 08 Preparat  | ion Method      | : EPA 6 | 608 SF   |                                  |                        |          |
| 0.98 U           | ug/L   | 0.98         | 0.019           | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 12674-11-2             | CH,IH    |
| 0.98 U           | ug/L   | 0.98         | 0.061           | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 11104-28-2             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.0097          | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 11141-16-5             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.028           | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 53469-21-9             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.023           | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 12672-29-6             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.025           | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 11097-69-1             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.0096          | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 11096-82-5             |          |
|                  | · ·  |              |                 |         |  |                                  |                        |          |
| 69               | %  | 32-101       |                 | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 877-09-8               | CH       |
| 82               | %  | 10-109       |                 | 1       | 04/25/17 08:32   | 04/29/17 00:00                   | 2051-24-3              |          |
|                  |  |              |                 |         |  |                                  |                        |          |
| Lab ID:          | 30216514010  | Collected    | 04/18/17        | 13:20   | Received: 04/  | 19/17 09:45 Ma                   | atrix: Water           |          |
|                  |  | Report       |                 |         |  |                                  |                        |          |
| Results          | Units  | Limit        | MDL             | DF      | Prepared   | Analyzed<br>                     | CAS No.                | Qual     |
| Analytical       | Method: EPA 6  | 08 Preparat  | ion Method      | : EPA 6 | 608 SF   |                                  |                        |          |
| 1.0              | ug/L   | 0.99         | 0.019           | 1       | 04/25/17 08:32   | 04/29/17 00:21                   | 12674-11-2             | CH,IH    |
| 0.99 U           | ug/L   | 0.99         | 0.061           | 1       | 04/25/17 08:32   | 04/29/17 00:21                   | 11104-28-2             | CH       |
| 0.99 U           | -  | 0.99         | 0.0098          | 1       | 04/25/17 08:32   | 04/29/17 00:21                   | 11141-16-5             | CH       |
| 0.99 U           | -  |              |                 | 1       |  | 04/29/17 00:21                   | 53469-21-9             | СН       |
|                  | •  |              |                 |         |  |                                  |                        | CH       |
|                  | ū  |              |                 |         |  |                                  |                        | CH       |
|                  | ū  |              |                 |         |  |                                  |                        | <b>.</b> |
| 0.020            | ~g/ =  | 0.00         | 0.000.          | •       | 0 1/20/11 00:02  | 0 1/20/ 11 00121                 |                        |          |
| 81               | %  | 32-101       |                 | 1       | 04/25/17 08:32   | 04/29/17 00:21                   | 877-09-8               | CH       |
| 68               | %  | 10-109       |                 | 1       | 04/25/17 08:32   | 04/29/17 00:21                   | 2051-24-3              |          |
|                  |  |              |                 |         |  |                                  |                        |          |
| Lab ID:          | 30216514011  | Collected    | : 04/18/17      | 13:20   | Received: 04/  | 19/17 09:45 Ma                   | atrix: Water           |          |
|                  |  | Report       |                 |         |  |                                  |                        |          |
| Results          | Units  | Limit        | MDL             | DF      | Prepared   | Analyzed                         | CAS No.                | Qual     |
| Analytical       | Method: EPA 6  | 08 Preparat  | ion Method      | : EPA 6 | 608 SF   |                                  | -                      |          |
| 1.0              | ug/L   | 0.98         | 0.019           | 1       | 04/25/17 08:32   | 04/29/17 00:42                   | 12674-11-2             | CH,IH    |
|                  | •  | 0.98         |                 | 1       |  |                                  |                        | CH       |
|                  | -  |              |                 | 1       | 04/25/17 08:32   | 04/29/17 00:42                   | 11141-16-5             | CH       |
| 0.98 U           | ug/L   | 0.98         | 0.028           | 1       |  | 04/29/17 00:42                   |                        | CH       |
|                  | ug/L   | 0.98         | 0.023           | 1       |  | 04/29/17 00:42                   |                        | CH       |
| 0.98 U           |  |              |                 | •       |  |                                  |                        |          |
| 0.98 U<br>0.98 U | -  | 0.98         | 0.025           | 1       | ()4/25/17 ()8:32   | 04/29/17 00:42                   | 11097-69-1             | (;H      |
| 0.98 U           | ug/L   | 0.98<br>0.98 | 0.025<br>0.0096 | 1       |  | 04/29/17 00:42                   |                        | CH       |
|                  | -  | 0.98<br>0.98 | 0.025<br>0.0096 | 1<br>1  |  | 04/29/17 00:42<br>04/29/17 00:42 |                        | СН       |
| 0.98 U<br>0.91J  | ug/L<br>ug/L   | 0.98         |                 | 1       | 04/25/17 08:32   | 04/29/17 00:42                   | 11096-82-5             |          |
| 0.98 U           | ug/L   |              |                 |         | 04/25/17 08:32<br>04/25/17 08:32   |                                  | 11096-82-5<br>877-09-8 | СН       |
|                  | Analytical  0.98 U 0.98 U 0.98 U 0.98 U 0.98 U 0.98 U 69 82  Lab ID:  Results  Analytical 1.0 0.99 U 0.99 U 0.99 U 0.99 U 0.99 U 68 Lab ID:  Results  Analytical 1.0 Results | Results      | Results         | Results | Results         Units         Report Limit         MDL         DF           Analytical Method: EPA 608         Preparation Method: EPA 608 | Results                          | Results                | Results  |





### **QUALITY CONTROL DATA**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

QC Batch: 256168 Analysis Method: EPA 608
QC Batch Method: EPA 608 SF Analysis Description: 608 GCS PCB

Associated Lab Samples: 30216514001

METHOD BLANK: 1262137 Matrix: Water

Associated Lab Samples: 30216514001

|                          |       | Blank  | Reporting |        |                |            |
|--------------------------|-------|--------|-----------|--------|----------------|------------|
| Parameter                | Units | Result | Limit     | MDL    | Analyzed       | Qualifiers |
| PCB-1016 (Aroclor 1016)  | ug/L  | 1.0 U  | 1.0       | 0.020  | 04/28/17 13:44 | CH,IH      |
| PCB-1221 (Aroclor 1221)  | ug/L  | 1.0 U  | 1.0       | 0.062  | 04/28/17 13:44 | CH         |
| PCB-1232 (Aroclor 1232)  | ug/L  | 1.0 U  | 1.0       | 0.0099 | 04/28/17 13:44 | CH         |
| PCB-1242 (Aroclor 1242)  | ug/L  | 1.0 U  | 1.0       | 0.029  | 04/28/17 13:44 | CH         |
| PCB-1248 (Aroclor 1248)  | ug/L  | 1.0 U  | 1.0       | 0.024  | 04/28/17 13:44 | CH         |
| PCB-1254 (Aroclor 1254)  | ug/L  | 1.0 U  | 1.0       | 0.025  | 04/28/17 13:44 | CH         |
| PCB-1260 (Aroclor 1260)  | ug/L  | 1.0 U  | 1.0       | 0.0098 | 04/28/17 13:44 |            |
| Decachlorobiphenyl (S)   | %     | 51     | 10-109    |        | 04/28/17 13:44 | CH         |
| Tetrachloro-m-xylene (S) | %     | 87     | 32-101    |        | 04/28/17 13:44 | CH         |

LABORATORY CONTROL SAMPLE: 1262138

Date: 05/02/2017 11:00 AM

|                          |       | Spike | LCS    | LCS   | % Rec  |            |
|--------------------------|-------|-------|--------|-------|--------|------------|
| Parameter                | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| PCB-1016 (Aroclor 1016)  | ug/L  | 1.2   | 1.1    | 90    | 53-113 | CH,IH      |
| PCB-1260 (Aroclor 1260)  | ug/L  | 1.2   | 0.95J  | 76    | 40-112 |            |
| Decachlorobiphenyl (S)   | %     |       |        | 60    | 10-109 | CH         |
| Tetrachloro-m-xylene (S) | %     |       |        | 88    | 32-101 | CH         |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALITY CONTROL DATA**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Date: 05/02/2017 11:00 AM

QC Batch: 256225 Analysis Method: EPA 608
QC Batch Method: EPA 608 SF Analysis Description: 608 GCS PCB

Associated Lab Samples: 30216514002, 30216514003, 30216514004, 30216514005, 30216514006, 30216514007, 30216514008,

30216514009, 30216514010, 30216514011

METHOD BLANK: 1262339 Matrix: Water

Associated Lab Samples: 30216514002, 30216514003, 30216514004, 30216514005, 30216514006, 30216514007, 30216514008,

30216514009, 30216514010, 30216514011

|                          |       | Blank  | Reporting |        |                |            |
|--------------------------|-------|--------|-----------|--------|----------------|------------|
| Parameter                | Units | Result | Limit     | MDL    | Analyzed       | Qualifiers |
| PCB-1016 (Aroclor 1016)  | ug/L  | 1.0 U  | 1.0       | 0.020  | 04/28/17 18:52 | CH,IH      |
| PCB-1221 (Aroclor 1221)  | ug/L  | 1.0 U  | 1.0       | 0.062  | 04/28/17 18:52 | CH         |
| PCB-1232 (Aroclor 1232)  | ug/L  | 1.0 U  | 1.0       | 0.0099 | 04/28/17 18:52 | CH         |
| PCB-1242 (Aroclor 1242)  | ug/L  | 1.0 U  | 1.0       | 0.029  | 04/28/17 18:52 | CH         |
| PCB-1248 (Aroclor 1248)  | ug/L  | 1.0 U  | 1.0       | 0.024  | 04/28/17 18:52 | CH         |
| PCB-1254 (Aroclor 1254)  | ug/L  | 1.0 U  | 1.0       | 0.025  | 04/28/17 18:52 | CH         |
| PCB-1260 (Aroclor 1260)  | ug/L  | 1.0 U  | 1.0       | 0.0098 | 04/28/17 18:52 |            |
| Decachlorobiphenyl (S)   | %     | 49     | 10-109    |        | 04/28/17 18:52 | CH         |
| Tetrachloro-m-xylene (S) | %     | 88     | 32-101    |        | 04/28/17 18:52 | CH         |

| LABORATORY CONTROL SAMPLE: | 1262340 | <b>-</b>  |        |       |        |            |
|----------------------------|---------|-----------|--------|-------|--------|------------|
|                            |         | Spike     | LCS    | LCS   | % Rec  | 0 ""       |
| Parameter                  | Units   | Conc.<br> | Result | % Rec | Limits | Qualifiers |
| PCB-1016 (Aroclor 1016)    | ug/L    | 1.2       | 1.1    | 85    | 53-113 | CH,IH      |
| PCB-1260 (Aroclor 1260)    | ug/L    | 1.2       | 0.93J  | 75    | 40-112 |            |
| Decachlorobiphenyl (S)     | %       |           |        | 66    | 10-109 | CH         |
| Tetrachloro-m-xylene (S)   | %       |           |        | 85    | 32-101 | CH         |

| MATRIX SPIKE & MATRIX SPI | IKE DUPLIC | CATE: 12623 | 41    |       | 1262342 |        |       |       |        |     |     |       |
|---------------------------|------------|-------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|-------|
|                           |            |             | MS    | MSD   |         |        |       |       |        |     |     |       |
|                           |            | 30216514002 | Spike | Spike | MS      | MSD    | MS    | MSD   | % Rec  |     | Max |       |
| Parameter                 | Units      | Result      | Conc. | Conc. | Result  | Result | % Rec | % Rec | Limits | RPD | RPD | Qual  |
| PCB-1016 (Aroclor 1016)   | ug/L       | 0.98 U      | 1.2   | 1.2   | 1.0     | 1.0    | 84    | 84    | 53-113 | 2   | 25  | CH,IH |
| PCB-1260 (Aroclor 1260)   | ug/L       | 0.98 U      | 1.2   | 1.2   | 0.92J   | 0.91J  | 75    | 75    | 40-112 |     | 25  |       |
| Decachlorobiphenyl (S)    | %          |             |       |       |         |        | 68    | 69    | 10-109 |     |     |       |
| Tetrachloro-m-xylene (S)  | %          |             |       |       |         |        | 81    | 78    | 32-101 |     |     | CH    |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



### **QUALIFIERS**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **LABORATORIES**

PASI-PA Pace Analytical Services - Greensburg

### **BATCH QUALIFIERS**

Batch: 256168

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### **ANALYTE QUALIFIERS**

Date: 05/02/2017 11:00 AM

| 10 | A matrix spike/matrix spike duplicate was not a | norformed for this botch | due to incufficient comple valume  |
|----|---|--------------------------|------------------------------------|
| 1c | A matrix spike/matrix spike duplicate was not i | performed for this batch | due to insufficient sample volume. |

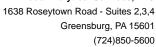
The result is reported from the front column due to low response for this analyte in the CCVs on the rear column. The lower of the two results is reported.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high

IH This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

ST Surrogate recovery was above laboratory control limits. Results may be biased high.





### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30216514

Date: 05/02/2017 11:00 AM

| Lab ID      | Sample ID                      | QC Batch Method | QC Batch | Analytical Method | Analytical<br>Batch |
|-------------|--------------------------------|-----------------|----------|-------------------|---------------------|
| 30216514001 | MW-1-0417                      | EPA 608 SF      | 256168   | EPA 608           | 256363              |
| 30216514002 | MW-6-0417                      | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514003 | MW-9-0417                      | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514004 | MW-11-0417                     | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514005 | MW-12-0417                     | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514006 | MW-20-0417                     | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514007 | MW-21-0417                     | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514008 | MW-24-0417                     | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514009 | Field Duplicate-0417           | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514010 | MW-6-Matrix Spike-0417         | EPA 608 SF      | 256225   | EPA 608           | 256366              |
| 30216514011 | MW-6-Duplicate Matrix Spike-04 | EPA 608 SF      | 256225   | EPA 608           | 256366              |

## 0 M CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical

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(M) EE C S N/λ M. NC 1 of ·1 SAMPLE CONDITIONS OTHER N) N/X DRINK SWATER \_ REGULATORY AGENCY WO#:30216514 Page: <u>교</u> ₹ M Sc OTHEF 2420 Н ð TIME GROUT WATER L. 7/12/17 RCRA DATE SITE 3021651 LOCATION iltered (Y/N) NPDES TSU lonsrbah <sup>€</sup>O<sup>Z</sup>S<sup>Z</sup>Bł ACCEPTED BY / AFFILIATION HOP 20 IOI 4NO3 \*os\*I Jupreserved Attention: Accounts Payable via email at NERegion@gesonline.com 180×1 N #OF CONTAINERS ddress: 5 Technology Place, Suite 4, East Syracuse, NY 13057 Company Name: Groundwater & Environmental Services, Inc. TIME SAMPLE TEMP AT COLLECTION 4/8/12 DATE 1030 076 1320 Ŝ 25 8 2 4447 IIIO TIME -Pace Project Manager: Rachel Christner SEE COLLECTED RELINQUISHED BY / AFFILIATION ace Quote Reference: TIME invoice Information: Pace Profile #: Section C DATE മ O ഗ ഗ ტ ഗ O ტ Ø Ø Ø Project Name: National Grid - Buffalo Dewey Avenue Site, Buffalo, NY G+GRAB C=COMP SAMPLE TYPE Project Number: 06-02882-142140-160 ₹ ₹ ₹ Ž W ķ ž ķ ¥ M ₹ эдор хіятам Required Project Information: Report To: M Boorady (GES) mboorady@gesonline.com COOLERS. 00DE 97. WY 10 P. WY urchase Order No.: MW-6-Duplicate Matrix Spike-0417 Valid Matter Codes
Valid Matter Codes
MATRIX
PRANCE WATER
WATER WATER
WATER WATER
WATER WATER
WATER WATER
WATER WATER
MATER WA Section B WW-6-Matrix Spike-0417 --END OF RECORD-Field Duplicate-0417 MW-24-0417 MW-11-0417 MW-12-0417 MW-20-0417 MW-21-0417 MW-9-0417 MW-1-0417 MW-6-0417 Samples S Section D Required Client Infor (A-Z, 0-9 / ,-) IDs MUST BE UNIQUE One Character per box. SAMPLEID Requested Due Date/TAT: Standard Address: 5 Technology Place, Suite 4 Email To: mboorady@gesonline.com SAMPLES WILL ARRIVE IN Phone: 800.220.3069, Fax: None East Syracuse, New York 13057 fuovila@gesonline.com Required Client Information: Company: GES - Syracuse Additional Comments: # MaTI

E-File, (ALLQ020rev.3,31Mar05), 13Jun2005

N/A N/A

N/A

N/A

Samples Intact

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Custody

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Received on

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SAMPLER NAME AND SIGNATURE

RINT Name of SAMPLER:

GNATURE of SAMPLER

SPECIFIC EDD NAME: ges@equisonline.com

NGBuffaloDeweyAve-labnumber.28351.EQEDD.zip

cgoldenwalts@gesonline.com, Syracuselabs@gesonline.com,

Please send reports to: mboorady@gesonline.com,

### Sample Condition Upon Receipt Pittsburgh

30 2 1 6 5 1 4 - र

| Client Name:   | at-  | <u> </u>    | Project #  |           |
|--|--|-------------|--|-----------|
|  |  | (           |  |           |
| Courier: 1 Fed Ex UPS USPS C<br>Tracking #: 7862 8019 8775   | ljent L Com  | mercia      | Pace Other   |           |
| Custody Seal on Cooler/Box Present:  | es 🗌 no  | Seal        | s intact: yes no   |           |
| Thermometer Used   | Type of Ice  | e: We       | t Blue None  | 10, #1    |
| Cooler Temperature Observed Temp   | ).6 °C   | Cor         | rection Factor: 6 °C Final Temp: 0.6 °C =                  | grader#1  |
| Temp should be above freezing to 6°C   | )-7  |             | 0 0.7 94   | 20/01 # C |
|  | <del> </del>                                       |             | contents: 25 4/1/ 4/19/17                                  |           |
| Comments:  | Yes No   | N/A         |  |           |
| Chain of Custody Present:  | $\perp X \perp$                                    |             | 1.   |           |
| Chain of Custody Filled Out:   | <del>-                                      </del> |             | 2.   |           |
| Chain of Custody Relinquished:   | -   1/2  |             | 3.   |           |
| Sampler Name & Signature on COC:   | 1/   | -           | 4.   | I         |
| Sample Labels match COC:   |  |             | 5.   |           |
| -Includes date/time/ID Matrix:   | <u>Wi</u>  |             |  | 1         |
| Samples Arrived within Hold Time:  | K  |             | 6.   | ı         |
| Short Hold Time Analysis (<72hr remaining):  | 1  |             | 7.   |           |
| Rush Turn Around Time Requested:   | 1 1  |             | 8.   |           |
| Sufficient Volume:   | 14.  |             | 9.   |           |
| Correct Containers Used:   |  |             | 10.  |           |
| -Pace Containers Used:   |  |             |  |           |
| Containers Intact:   | N. N.  |             | 11.11 Amber Jar broke from sample 003                      |           |
| Orthophosphate field filtered  | <u> </u>   | W.          | 12.  | •         |
| Organic Samples checked for dechlorination   | n: K   |             | 13.  |           |
| Filtered volume received for Dissolved tests   |  | X           | 14.  |           |
| All containers have been checked for preservation.   | R  |             | 15.  |           |
| All containers needing preservation are found to be in compliance with EPA recommendation.   | K  |             |  |           |
| exceptions: VOA, coliform, TOC, O&G, Phenoli   | cs   |             | Initial when Completed Completed Date/time of preservation |           |
| Charles to the content of the conten |  |             | Lot # of added   |           |
| ·  |  | <del></del> | preservative   |           |
| Headspace in VOA Vials ( >6mm):  |  | 19          | 16.  |           |
| Trip Blank Present:  |  | I K         | 17.  |           |
| Trip Blank Custody Seals Present  Rad Aqueous Samples Screened > 0.5 mrem/   |  | X           | Initial when ()  |           |
| Rad Aqueous Samples Screened > 0.5 illrelli/   |  | ] (X        | completed: Date: 4/19/17                                   |           |
| Client Notification/ Resolution:   |  |             |  |           |
| Person Contacted:  |  | _ Date      | /Time:Contacted By:  |           |
| Comments/ Resolution:  |  |             |  |           |
|  | <del> </del>                                       |             |  |           |
|  |  |             |  |           |
|  |  |             |  | ·         |
|  |  |             | · ·  |           |
| ☐ A check in this box indicates that a   | dditional info                                     | rmati       | on has been stored in ereports.                            |           |

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

\*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

(724)850-5600



October 30, 2017

Devin Shay Groundwater & Environmental Services -Syracuse 5 Technology Place, Suite 4 East Syracuse, NY 13057

RE: Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

### Dear Devin Shay:

Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Pachel D Christmer

Rachel Christner rachel.christner@pacelabs.com 724-850-5611 Project Manager

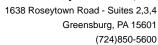
### **Enclosures**

cc: GES Reports - Syracuse, Groundwater & Environmental Services, Inc.

Tim Beaumont, Groundwater & Environmental Services, Inc.

Ms. Cheryl Golden-Walts, Groundwater & Environmental Services, Inc.







### **CERTIFICATIONS**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

**Arkansas Certification** 

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

**Delaware Certification** 

Florida/TNI Certification #: E87683 Georgia Certification #: C040

Guam Certification Hawaii Certification Idaho Certification Illinois Certification

Indiana Certification lowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification Missouri Certification #: 235 Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14 Nevada Certification #: PA014572015-1 New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification #: PA01457

New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Oregon/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8 Utah/TNI Certification #: PA014572015-5 USDA Soil Permit #: P330-14-00213 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

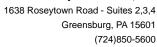


### **SAMPLE SUMMARY**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

| Lab ID      | Sample ID            | Matrix | Date Collected | Date Received  |
|-------------|----------------------|--------|----------------|----------------|
| 30233666001 | MW-1-1017            | Water  | 10/18/17 10:30 | 10/20/17 10:00 |
| 30233666002 | MW-6-1017            | Water  | 10/18/17 11:15 | 10/20/17 10:00 |
| 30233666003 | MW-6-MS-1017         | Water  | 10/18/17 11:15 | 10/20/17 10:00 |
| 30233666004 | MW-6-MSD-1017        | Water  | 10/18/17 11:15 | 10/20/17 10:00 |
| 30233666005 | MW-9-1017            | Water  | 10/18/17 08:50 | 10/20/17 10:00 |
| 30233666006 | MW-11-1017           | Water  | 10/18/17 09:35 | 10/20/17 10:00 |
| 30233666007 | MW-12-1017           | Water  | 10/18/17 08:10 | 10/20/17 10:00 |
| 30233666008 | MW-20-1017           | Water  | 10/19/17 09:30 | 10/20/17 10:00 |
| 30233666009 | MW-21-1017           | Water  | 10/19/17 10:10 | 10/20/17 10:00 |
| 30233666010 | MW-24-1017           | Water  | 10/19/17 08:45 | 10/20/17 10:00 |
| 30233666011 | Field Duplicate-1017 | Water  | 10/18/17 00:00 | 10/20/17 10:00 |



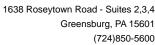


### **SAMPLE ANALYTE COUNT**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

| Lab ID      | Sample ID            | Method  | Analysts | Analytes<br>Reported | Laboratory |
|-------------|----------------------|---------|----------|----------------------|------------|
| 30233666001 | MW-1-1017            | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666002 | MW-6-1017            | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666003 | MW-6-MS-1017         | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666004 | MW-6-MSD-1017        | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666005 | MW-9-1017            | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666006 | MW-11-1017           | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666007 | MW-12-1017           | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666008 | MW-20-1017           | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666009 | MW-21-1017           | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666010 | MW-24-1017           | EPA 608 | CWB      | 9                    | PASI-PA    |
| 30233666011 | Field Duplicate-1017 | EPA 608 | CWB      | 9                    | PASI-PA    |





Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Method: EPA 608
Description: 608 GCS PCBs

Client: Groundwater & Environmental Services, Inc. (Syracuse)

**Date:** October 30, 2017

### **General Information:**

11 samples were analyzed for EPA 608. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

### **Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

### Sample Preparation:

The samples were prepared in accordance with EPA 608 SF with any exceptions noted below.

### Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

### **Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

QC Batch: 276892

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- BLANK (Lab ID: 1360964)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- LCS (Lab ID: 1360965)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MS (Lab ID: 1360966)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MSD (Lab ID: 1360967)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-1-1017 (Lab ID: 30233666001)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-11-1017 (Lab ID: 30233666006)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-12-1017 (Lab ID: 30233666007)
  - Decachlorobiphenyl (S)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)





Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Method: **EPA 608** Description: 608 GCS PCBs

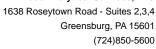
Client: Groundwater & Environmental Services, Inc. (Syracuse)

Date: October 30, 2017

QC Batch: 276892

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- Tetrachloro-m-xylene (S)
- MW-20-1017 (Lab ID: 30233666008)
  - Decachlorobiphenyl (S)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)
  - Tetrachloro-m-xylene (S)
- MW-21-1017 (Lab ID: 30233666009)
  - Decachlorobiphenyl (S)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)
  - Tetrachloro-m-xylene (S)
- MW-24-1017 (Lab ID: 30233666010)
  - Decachlorobiphenyl (S)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232) • PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)
  - Tetrachloro-m-xylene (S)
- MW-6-1017 (Lab ID: 30233666002)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-6-MS-1017 (Lab ID: 30233666003)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-6-MSD-1017 (Lab ID: 30233666004)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)
- MW-9-1017 (Lab ID: 30233666005)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)





Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Method: EPA 608
Description: 608 GCS PCBs

Client: Groundwater & Environmental Services, Inc. (Syracuse)

Date: October 30, 2017

QC Batch: 276893

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- Field Duplicate-1017 (Lab ID: 30233666011)
  - Decachlorobiphenyl (S)
  - Tetrachloro-m-xylene (S)

### Surrogates:

All surrogates were within QC limits with any exceptions noted below.

### Method Blank

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

### **Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

### Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 276893

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

### **Additional Comments:**

### Analyte Comments:

QC Batch: 276893

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Field Duplicate-1017 (Lab ID: 30233666011)
  - PCB-1016 (Aroclor 1016)
  - PCB-1221 (Aroclor 1221)
  - PCB-1232 (Aroclor 1232)
  - PCB-1242 (Aroclor 1242)
  - PCB-1248 (Aroclor 1248)
  - PCB-1254 (Aroclor 1254)
  - PCB-1260 (Aroclor 1260)

2c: Result reported from front column due to low response for this analyte in the ICV on the rear column.

- LCS (Lab ID: 1360969)
  - PCB-1260 (Aroclor 1260)

This data package has been reviewed for quality and completeness and is approved for release.



Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

| Sample: MW-1-1017                               | Lab ID: 30    | 0233666001   | Collected:       | 10/18/17  | 10:30    | Received: 10/2                   | 20/17 10:00 Ma                   | atrix: Water |          |
|---|---------------|--------------|------------------|-----------|----------|----------------------------------|----------------------------------|--------------|----------|
|   |               |              | Report           |           |          |                                  |                                  |              |          |
| Parameters                                      | Results       | Units        | Limit            | MDL       | DF       | Prepared                         | Analyzed                         | CAS No.      | Qual     |
| 608 GCS PCBs                                    | Analytical Me | ethod: EPA 6 | 08 Preparati     | on Method | l: EPA 6 | 608 SF                           |                                  |              |          |
| PCB-1016 (Aroclor 1016)                         | 0.98 U        | ug/L         | 0.98             | 0.043     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 12674-11-2   |          |
| PCB-1221 (Aroclor 1221)                         | 0.98 U        | ug/L         | 0.98             | 0.053     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 11104-28-2   |          |
| PCB-1232 (Aroclor 1232)                         | 0.98 U        | ug/L         | 0.98             | 0.055     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 11141-16-5   |          |
| PCB-1242 (Aroclor 1242)                         | 0.98 U        | ug/L         | 0.98             | 0.020     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 53469-21-9   |          |
| PCB-1248 (Aroclor 1248)                         | 0.98 U        | ug/L         | 0.98             | 0.029     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 12672-29-6   |          |
| PCB-1254 (Aroclor 1254)                         | 0.98 U        | ug/L         | 0.98             | 0.026     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 11097-69-1   |          |
| PCB-1260 (Aroclor 1260)                         | 0.98 U        | ug/L         | 0.98             | 0.025     | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 11096-82-5   |          |
| Surrogates                                      |               |              |                  |           |          |                                  |                                  |              |          |
| Tetrachloro-m-xylene (S)                        | 88            | %            | 41-107           |           | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 877-09-8     | CH       |
| Decachlorobiphenyl (S)                          | 65            | %            | 17-118           |           | 1        | 10/26/17 14:00                   | 10/28/17 01:50                   | 2051-24-3    | СН       |
| Sample: MW-6-1017                               | Lab ID: 30    | 0233666002   | Collected:       | 10/18/17  | 11:15    | Received: 10/2                   | 20/17 10:00 M                    | atrix: Water |          |
| •   |               |              | Report           |           |          |                                  |                                  |              |          |
| Parameters                                      | Results       | Units        | Limit            | MDL       | DF       | Prepared                         | Analyzed                         | CAS No.      | Qual     |
| 608 GCS PCBs                                    | Analytical Me | ethod: EPA 6 | 08 Preparati     | on Method | l: EPA 6 | 608 SF                           |                                  | •            | 1        |
| PCB-1016 (Aroclor 1016)                         | 0.97 U        | ug/L         | 0.97             | 0.043     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 12674-11-2   |          |
| PCB-1221 (Aroclor 1221)                         | 0.97 U        | ug/L         | 0.97             | 0.053     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 11104-28-2   |          |
| PCB-1232 (Aroclor 1232)                         | 0.97 U        | ug/L         | 0.97             | 0.054     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 11141-16-5   |          |
| PCB-1242 (Aroclor 1242)                         | 0.97 U        | ug/L         | 0.97             | 0.020     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   |              |          |
| PCB-1248 (Aroclor 1248)                         | 0.97 U        | ug/L         | 0.97             | 0.029     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 12672-29-6   |          |
| PCB-1254 (Aroclor 1254)                         | 0.97 U        | ug/L         | 0.97             | 0.026     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 11097-69-1   |          |
| PCB-1260 (Aroclor 1260)                         | 0.97 U        | ug/L         | 0.97             | 0.025     | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   |              |          |
| Surrogates                                      |               | 9-           |                  |           |          |                                  |                                  |              |          |
| Tetrachloro-m-xylene (S)                        | 84            | %            | 41-107           |           | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 877-09-8     | CH       |
| Decachlorobiphenyl (S)                          | 66            | %            | 17-118           |           | 1        | 10/26/17 14:00                   | 10/28/17 02:11                   | 2051-24-3    | СН       |
| Sample: MW-6-MS-1017                            | Lab ID: 30    | 0233666003   | Collected:       | 10/18/17  | 11:15    | Received: 10/2                   | 20/17 10:00 M                    | atrix: Water |          |
| <b>P</b>  |               |              | _                |           |          |                                  |                                  |              |          |
| Parameters                                      | Results       | Units        | Report<br>Limit  | MDL       | DF       | Prepared                         | Analyzed                         | CAS No.      | Qual     |
| 608 GCS PCBs                                    | Analytical Me | ethod: EPA 6 | 08 Preparati     | on Method | · FPA 6  | <br>508 SE                       |                                  |              | - (      |
|   |               |              |                  |           |          |                                  | 40/00/47 00 00                   | 40074445     |          |
| PCB-1016 (Arcclor 1016)                         | 1.3           | ug/L         | 0.97             | 0.043     | 1        | 10/26/17 14:00                   |                                  |              |          |
| PCB-1221 (Aroclor 1221)                         | 0.97 U        | ug/L         | 0.97             | 0.053     | 1        | 10/26/17 14:00                   | 10/28/17 02:32                   |              |          |
| PCB-1232 (Aroclor 1232)                         | 0.97 U        | ug/L         | 0.97             | 0.054     | 1        | 10/26/17 14:00                   |                                  |              |          |
| PCB-1242 (Aroclor 1242)                         | 0.97 U        | ug/L         | 0.97             | 0.020     | 1        | 10/26/17 14:00                   | 10/28/17 02:32                   |              |          |
| PCB-1248 (Aroclor 1248)                         | 0.97 U        | ug/L         | 0.97             | 0.029     | 1        | 10/26/17 14:00                   | 10/28/17 02:32                   |              |          |
| PCB-1254 (Aroclor 1254)                         | 0.97 U        | ug/L         | 0.97             | 0.026     | 1        | 10/26/17 14:00                   | 10/28/17 02:32                   |              |          |
| PCB-1260 (Aroclor 1260)                         | 1.4           | ug/L         | 0.97             | 0.025     | 1        | 10/26/17 14:00                   | 10/28/17 02:32                   | 11096-82-5   |          |
| Surrogates                                      | 07            | 0/           | 44 407           |           |          | 40/00/47 44:00                   | 10/00/17 00:00                   | 077 00 0     | CLI      |
| Totrachlara m vidana (C)                        |               |              |                  |           |          |                                  |                                  |              |          |
| Tetrachloro-m-xylene (S) Decachlorobiphenyl (S) | 87<br>72      | %<br>%       | 41-107<br>17-118 |           | 1<br>1   | 10/26/17 14:00<br>10/26/17 14:00 | 10/28/17 02:32<br>10/28/17 02:32 |              | CH<br>CH |



Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

| Sample: MW-6-MSD-1017   | Lab ID:      | 30233666004   | Collected:     | 10/18/17  | 11:15    | Received: 10/  | 20/17 10:00 Ma | atrix: Water |      |
|---|--------------|---------------|----------------|-----------|----------|----------------|----------------|--------------|------|
|   |              |               | Report         |           |          |                |                |              |      |
| Parameters  | Results      | Units         | Limit          | MDL       | DF       | Prepared       | Analyzed       | CAS No.      | Qual |
| 608 GCS PCBs  | Analytical I | Method: EPA 6 | 08 Preparati   | on Method | d: EPA 6 | 608 SF         |                |              |      |
| PCB-1016 (Aroclor 1016)   | 1.2          | ug/L          | 0.98           | 0.043     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 12674-11-2   |      |
| PCB-1221 (Aroclor 1221)   | 0.98 U       | ug/L          | 0.98           | 0.053     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 11104-28-2   |      |
| PCB-1232 (Aroclor 1232)   | 0.98 U       | ug/L          | 0.98           | 0.055     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 11141-16-5   |      |
| PCB-1242 (Aroclor 1242)   | 0.98 U       | ug/L          | 0.98           | 0.020     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 53469-21-9   |      |
| PCB-1248 (Aroclor 1248)   | 0.98 U       | ug/L          | 0.98           | 0.029     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 12672-29-6   |      |
| PCB-1254 (Aroclor 1254)   | 0.98 U       | ug/L          | 0.98           | 0.026     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 11097-69-1   |      |
| PCB-1260 (Aroclor 1260)   | 1.4          | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 11096-82-5   |      |
| Surrogates  |              |               |                |           |          |                |                |              |      |
| Tetrachloro-m-xylene (S)  | 86           | %             | 41-107         |           | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 877-09-8     | CH   |
| Decachlorobiphenyl (S)  | 76           | %             | 17-118         |           | 1        | 10/26/17 14:00 | 10/28/17 02:52 | 2051-24-3    | СН   |
| Sample: MW-9-1017   | Lab ID:      | 30233666005   | Collected:     | 10/18/17  | 08:50    | Received: 10/  | 20/17 10:00 Ma | atrix: Water |      |
| ·   |              |               | Report         |           |          |                |                |              |      |
| Parameters  | Results      | Units         | Limit          | MDL       | DF       | Prepared       | Analyzed       | CAS No.      | Qual |
|   |              |               |                |           |          | . ———          |                |              |      |
| 608 GCS PCBs  | Analytical I | Method: EPA 6 | 08 Preparati   | on Method | d: EPA 6 | 608 SF         |                |              |      |
| PCB-1016 (Aroclor 1016)   | 0.98 U       | ug/L          | 0.98           | 0.043     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 12674-11-2   |      |
| PCB-1221 (Aroclor 1221)   | 0.98 U       | ug/L          | 0.98           | 0.053     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 11104-28-2   |      |
| PCB-1232 (Aroclor 1232)   | 0.98 U       | ug/L          | 0.98           | 0.055     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 11141-16-5   |      |
| PCB-1242 (Aroclor 1242)   | 0.98 U       | ug/L          | 0.98           | 0.020     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 53469-21-9   |      |
| PCB-1248 (Aroclor 1248)   | 0.98 U       | ug/L          | 0.98           | 0.029     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 12672-29-6   |      |
| PCB-1254 (Aroclor 1254)   | 0.98 U       | ug/L          | 0.98           | 0.026     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 11097-69-1   |      |
| PCB-1260 (Aroclor 1260)   | 0.98 U       | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 11096-82-5   |      |
| Surrogates  |              | •             |                |           |          |                |                |              |      |
| Tetrachloro-m-xylene (S)  | 67           | %             | 41-107         |           | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 877-09-8     | CH   |
| Decachlorobiphenyl (S)  | 79           | %             | 17-118         |           | 1        | 10/26/17 14:00 | 10/28/17 03:12 | 2051-24-3    | СН   |
| Sample: MW-11-1017  | Lab ID:      | 30233666006   | Collected:     | 10/18/17  | 09:35    | Received: 10/  | 20/17 10:00 Ma | atrix: Water |      |
| •   |              |               | Report         |           |          |                |                |              |      |
| Parameters  | Results      | Units         | Limit          | MDL       | DF       | Prepared       | Analyzed       | CAS No.      | Qua  |
| 1 diameters   |              |               |                |           |          | - Trepared     | - Analyzed     |              |      |
| 608 GCS PCBs  | Analytical I | Method: EPA 6 | 08 Preparati   | on Method | d: EPA 6 | 608 SF         |                |              |      |
| PCB-1016 (Aroclor 1016)   | 0.98 U       | ug/L          | 0.98           | 0.043     | 1        | 10/26/17 14:00 | 10/28/17 03:33 | 12674-11-2   |      |
| PCB-1221 (Aroclor 1221)   | 0.98 U       | ug/L          | 0.98           | 0.053     | 1        | 10/26/17 14:00 | 10/28/17 03:33 |              |      |
| PCB-1232 (Aroclor 1232)   | 0.98 U       | ug/L          | 0.98           | 0.055     | 1        | 10/26/17 14:00 | 10/28/17 03:33 |              |      |
| PCB-1242 (Aroclor 1242)   | 0.98 U       | ug/L          | 0.98           | 0.020     | 1        | 10/26/17 14:00 | 10/28/17 03:33 |              |      |
|   | 0.98 U       | ug/L          | 0.98           | 0.029     | 1        | 10/26/17 14:00 | 10/28/17 03:33 |              |      |
| PCD-1246 (AIUCIUI 1246)   | 0.98 U       | ug/L          | 0.98           | 0.026     | 1        | 10/26/17 14:00 | 10/28/17 03:33 |              |      |
| ,   |              | · J           |                |           |          |                |                |              |      |
| PCB-1248 (Aroclor 1248)<br>PCB-1254 (Aroclor 1254)<br>PCB-1260 (Aroclor 1260) |              | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00 | 10/20/17 03:33 | 11090-02-a   |      |
| ,   | 0.98 U       | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00 | 10/28/17 03:33 | 11090-02-3   |      |
| PCB-1254 (Aroclor 1254)<br>PCB-1260 (Aroclor 1260)                            |              | ug/L<br>%     | 0.98<br>41-107 | 0.025     | 1        |                | 10/28/17 03:33 |              | СН   |



Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

| Sample: MW-12-1017                                 | Lab ID: 30    | 0233666007    | Collected:     | 10/18/17  | 08:10    | Received: 10/   | 20/17 10:00 Ma | atrix: Water |   |
|--|---------------|---------------|----------------|-----------|----------|-----------------|----------------|--------------|---|
|  |               |               | Report         |           |          |                 |                |              |   |
| Parameters   | Results       | Units         | Limit          | MDL       | DF       | Prepared        | Analyzed       | CAS No.      | Qua                                     |
| 608 GCS PCBs                                       | Analytical Me | ethod: EPA 6  | 08 Preparati   | on Method | d: EPA 6 | 608 SF          |                |              |   |
| PCB-1016 (Aroclor 1016)                            | 0.98 U        | ug/L          | 0.98           | 0.043     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 12674-11-2   | СН                                      |
| PCB-1221 (Aroclor 1221)                            | 0.98 U        | ug/L          | 0.98           | 0.053     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 11104-28-2   | CH                                      |
| PCB-1232 (Aroclor 1232)                            | 0.98 U        | ug/L          | 0.98           | 0.055     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 11141-16-5   | CH                                      |
| PCB-1242 (Aroclor 1242)                            | 0.98 U        | ug/L          | 0.98           | 0.020     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 53469-21-9   | CH                                      |
| PCB-1248 (Aroclor 1248)                            | 0.98 U        | ug/L          | 0.98           | 0.029     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 12672-29-6   | CH                                      |
| PCB-1254 (Aroclor 1254)                            | 0.98 U        | ug/L          | 0.98           | 0.026     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 11097-69-1   | CH                                      |
| PCB-1260 (Aroclor 1260)                            | 0.98 U        | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 11096-82-5   | CH                                      |
| Surrogates   |               |               |                |           |          |                 |                |              |   |
| Tetrachloro-m-xylene (S)                           | 78            | %             | 41-107         |           | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 877-09-8     | CH                                      |
| Decachlorobiphenyl (S)                             | 85            | %             | 17-118         |           | 1        | 10/26/17 14:00  | 10/28/17 05:57 | 2051-24-3    | СН                                      |
| Sample: MW-20-1017                                 | Lab ID: 30    | 0233666008    | Collected:     | 10/19/17  | 09:30    | Received: 10/   | 20/17 10:00 Ma | atrix: Water |   |
| ·  |               |               | Report         |           |          |                 |                |              |   |
| Parameters   | Results       | Units         | Limit          | MDL       | DF       | Prepared        | Analyzed       | CAS No.      | Qua                                     |
| 608 GCS PCBs                                       | Applytical Ma | ethod: EPA 6  | ne Proparati   | on Motho  | 4. EDV 6 |                 | -              |              | -                                       |
|  | ·             | elilou. LFA o | о гтератан     |           | J. LFA   | 506 SI          |                |              |   |
| PCB-1016 (Aroclor 1016)                            | 0.98 U        | ug/L          | 0.98           | 0.043     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 12674-11-2   | СН                                      |
| PCB-1221 (Aroclor 1221)                            | 0.98 U        | ug/L          | 0.98           | 0.053     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 11104-28-2   | CH                                      |
| PCB-1232 (Aroclor 1232)                            | 0.98 U        | ug/L          | 0.98           | 0.055     | 1        | 10/26/17 14:00  | 10/28/17 06:17 |              | CH                                      |
| PCB-1242 (Aroclor 1242)                            | 0.98 U        | ug/L          | 0.98           | 0.020     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 53469-21-9   | CH                                      |
| PCB-1248 (Aroclor 1248)                            | 0.98 U        | ug/L          | 0.98           | 0.029     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 12672-29-6   | CH                                      |
| PCB-1254 (Aroclor 1254)                            | 0.98 U        | ug/L          | 0.98           | 0.026     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 11097-69-1   | CH                                      |
| PCB-1260 (Aroclor 1260)                            | 0.98 U        | ug/L          | 0.98           | 0.025     | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 11096-82-5   | CH                                      |
| Surrogates   |               |               |                |           |          |                 |                |              |   |
| Tetrachloro-m-xylene (S)                           | 78            | %             | 41-107         |           | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 877-09-8     | CH                                      |
| Decachlorobiphenyl (S)                             | 88            | %             | 17-118         |           | 1        | 10/26/17 14:00  | 10/28/17 06:17 | 2051-24-3    | СН                                      |
| Sample: MW-21-1017                                 | Lab ID: 30    | 0233666009    | Collected:     | 10/19/17  | 10:10    | Received: 10/   | 20/17 10:00 Ma | atrix: Water |   |
| •  |               |               | Report         |           |          |                 |                |              |   |
| Parameters   | Results       | Units         | Limit          | MDL       | DF       | Prepared        | Analyzed       | CAS No.      | Qua                                     |
| 608 GCS PCBs                                       | Analytical Me | ethod: EPA 6  | 08 Preparati   | on Method | d: EPA 6 | 608 SF          |                |              | ,,                                      |
| PCB-1016 (Aroclor 1016)                            | 0.99 U        | ug/L          | 0.99           | 0.043     | 1        | 10/26/17 14:00  | 10/28/17 06:38 | 12674-11-2   | СН                                      |
| PCB-1221 (Aroclor 1221)                            | 0.99 U        | ug/L          | 0.99           | 0.053     | 1        | 10/26/17 14:00  | 10/28/17 06:38 |              | CH                                      |
| PCB-1232 (Aroclor 1232)                            | 0.99 U        | ug/L          | 0.99           | 0.055     | 1        |                 | 10/28/17 06:38 |              | CH                                      |
| PCB-1242 (Aroclor 1242)                            | 0.99 U        | ug/L          | 0.99           | 0.020     | 1        | 10/26/17 14:00  | 10/28/17 06:38 |              | CH                                      |
| PCB-1248 (Aroclor 1248)                            | 0.99 U        | ug/L          | 0.99           | 0.029     | 1        | 10/26/17 14:00  | 10/28/17 06:38 |              | CH                                      |
|  | 0.99 U        | ug/L          | 0.99           | 0.026     | 1        | 10/26/17 14:00  | 10/28/17 06:38 |              | CH                                      |
|  | J.UU U        | -             |                |           |          |                 |                |              | CH                                      |
| PCB-1254 (Aroclor 1254)                            |               | ua/l          | 0.99           | 0.025     | 1        | 10/26/17 14 111 | 1U/Z0/1/ UD:30 | 11096-82-5   | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| PCB-1254 (Aroclor 1254)<br>PCB-1260 (Aroclor 1260) | 0.99 U        | ug/L          | 0.99           | 0.025     | 1        | 10/26/17 14:00  | 10/28/17 06:38 | 11096-82-5   | СП                                      |
| PCB-1254 (Aroclor 1254)                            |               | ug/L<br>%     | 0.99<br>41-107 | 0.025     | 1        | 10/26/17 14:00  | 10/28/17 06:38 |              | СН                                      |



Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

| Sample: MW-24-1017  | Lab ID:   | 30233666010  | Collected:  | 10/19/17                                | 08:45                         | Received: 10/  | 20/17 10:00 Ma  | atrix: Water  |                            |
|---|---|--|---|---|-------------------------------|--|---|---|----------------------------|
|   |   |  | Report  |   |                               |  |   |   |                            |
| Parameters  | Results   | Units  | Limit   | MDL                                     | DF                            | Prepared   | Analyzed  | CAS No.   | Qua                        |
| 608 GCS PCBs  | Analytical  | Method: EPA 6  | 08 Preparati  | on Method                               | I: EPA 6                      | 608 SF   |   |   |                            |
| PCB-1016 (Aroclor 1016)   | 0.99 U  | ug/L   | 0.99  | 0.043                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 12674-11-2  | СН                         |
| PCB-1221 (Aroclor 1221)   | 0.99 U  | ug/L   | 0.99  | 0.053                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 11104-28-2  | CH                         |
| PCB-1232 (Aroclor 1232)   | 0.99 U  | ug/L   | 0.99  | 0.055                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 11141-16-5  | CH                         |
| PCB-1242 (Aroclor 1242)   | 0.99 U  | ug/L   | 0.99  | 0.020                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 53469-21-9  | CH                         |
| PCB-1248 (Aroclor 1248)   | 0.99 U  | ug/L   | 0.99  | 0.029                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 12672-29-6  | CH                         |
| PCB-1254 (Aroclor 1254)   | 0.99 U  | ug/L   | 0.99  | 0.026                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 11097-69-1  | CH                         |
| PCB-1260 (Aroclor 1260)   | 0.99 U  | ug/L   | 0.99  | 0.025                                   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 11096-82-5  | CH                         |
| Surrogates  |   |  |   |   |                               |  |   |   |                            |
| Tetrachloro-m-xylene (S)  | 71  | %  | 41-107  |   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 877-09-8  | CH                         |
| Decachlorobiphenyl (S)  | 85  | %  | 17-118  |   | 1                             | 10/26/17 14:00   | 10/28/17 06:58  | 2051-24-3   | CH                         |
|   |   |  |   |   |                               |  |   |   |                            |
|   |   |  |   |   |                               |  |   |   |                            |
| Sample: Field Duplicate-1017  | Lab ID:   | 30233666011  | Collected:  | 10/18/17                                | 00:00                         | Received: 10/  | 20/17 10:00 Ma  | atrix: Water  |                            |
| Sample: Field Duplicate-1017  | Lab ID:   | 30233666011  | Collected:  | 10/18/17                                | 00:00                         | Received: 10/  | 20/17 10:00 Ma  | atrix: Water  |                            |
| Sample: Field Duplicate-1017  Parameters  | Lab ID:   | <b>30233666011</b> Units   |   | 10/18/17<br>MDL                         | 00:00<br>DF                   | Received: 10/  | 20/17 10:00 Ma  | catrix: Water   | Qua                        |
| Parameters  | Results   |  | Report<br>Limit   | MDL                                     | DF                            | Prepared   |   |   | Qua                        |
| Parameters 608 GCS PCBs   | Results   | Units  | Report<br>Limit   | MDL                                     | DF                            | Prepared   |   | CAS No.   | Qua<br>1c                  |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)   | Results Analytical  | Units  Method: EPA 6   | Report Limit 08 Preparati   | MDL -                                   | DF<br>I: EPA 6                | Prepared<br>508 SF   | Analyzed  | CAS No.   | _                          |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)   | Results  Analytical  0.98 U   | Units  Method: EPA 6  ug/L   | Report Limit  08 Preparati  | MDL – on Method                         | DF<br> : EPA 6                | Prepared<br>608 SF<br>10/26/17 10:36   | Analyzed 10/28/17 00:49   | CAS No.   | 1c                         |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  | Results  Analytical  0.98 U  0.98 U                                 | Units  Method: EPA 6  ug/L  ug/L   | Report<br>Limit 08 Preparati<br>0.98<br>0.98                            | MDL -<br>on Method<br>0.043<br>0.053    | DF<br>I: EPA 6<br>1<br>1      | Prepared<br>608 SF<br>10/26/17 10:36<br>10/26/17 10:36                                       | Analyzed  10/28/17 00:49 10/28/17 00:49   | CAS No.  12674-11-2 11104-28-2 11141-16-5   | 1c<br>1c                   |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)  PCB-1242 (Aroclor 1242)  | Analytical  0.98 U 0.98 U 0.98 U                                    | Units  Method: EPA 6  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L                         | Report<br>Limit 08 Preparati<br>0.98<br>0.98<br>0.98                    | MDLon Method                            | DF<br>I: EPA 6<br>1<br>1<br>1 | Prepared  608 SF  10/26/17 10:36 10/26/17 10:36 10/26/17 10:36                               | Analyzed  10/28/17 00:49 10/28/17 00:49 10/28/17 00:49  | CAS No.  12674-11-2 11104-28-2 11141-16-5 53469-21-9                                  | 1c<br>1c<br>1c             |
| Parameters  508 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)  PCB-1242 (Aroclor 1242)  PCB-1248 (Aroclor 1248)   | Analytical  0.98 U 0.98 U 0.98 U 0.98 U 0.98 U 0.98 U               | Units — — — — — — — — — — — — — — — — — — —                                      | Report Limit 0.98 0.98 0.98 0.98 0.98                                   | MDL                                     | DF 1: EPA 6 1 1 1 1           | Prepared  508 SF  10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36                | Analyzed  10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49                               | CAS No.  12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6                       | 1c<br>1c<br>1c<br>1c       |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)   | Analytical  0.98 U        | Units  Method: EPA 6  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L | Report Limit 0.98 0.98 0.98 0.98 0.98 0.98                              | MDL                                     | DF : EPA 6 1 1 1 1 1 1 1 1 1  | Prepared  508 SF  10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36                | Analyzed  10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49                | CAS No.  12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1            | 1c<br>1c<br>1c<br>1c<br>1c |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)  PCB-1242 (Aroclor 1242)  PCB-1248 (Aroclor 1248)  PCB-1254 (Aroclor 1254)                          | Analytical  0.98 U | Units  Method: EPA 6  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L             | Report<br>Limit  08 Preparati  0.98  0.98  0.98  0.98  0.98  0.98  0.98 | MDL 0.043 0.053 0.055 0.020 0.029 0.026 | DF 1: EPA 6 1 1 1 1 1 1       | Prepared  508 SF  10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 | Analyzed  10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 | CAS No.  12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1            | 1c<br>1c<br>1c<br>1c<br>1c |
| Parameters  608 GCS PCBs  PCB-1016 (Aroclor 1016)  PCB-1221 (Aroclor 1221)  PCB-1232 (Aroclor 1232)  PCB-1242 (Aroclor 1242)  PCB-1248 (Aroclor 1248)  PCB-1254 (Aroclor 1254)  PCB-1260 (Aroclor 1260) | Analytical  0.98 U | Units  Method: EPA 6  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L  ug/L | Report<br>Limit  08 Preparati  0.98  0.98  0.98  0.98  0.98  0.98  0.98 | MDL 0.043 0.053 0.055 0.020 0.029 0.026 | DF 1: EPA 6 1 1 1 1 1 1       | Prepared  508 SF  10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 10/26/17 10:36 | Analyzed  10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 10/28/17 00:49 | CAS No.  12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5 | 1c<br>1c<br>1c<br>1c<br>1c |



### **QUALITY CONTROL DATA**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

QC Batch: 276892 Analysis Method: EPA 608
QC Batch Method: EPA 608 SF Analysis Description: 608 GCS PCB

Associated Lab Samples: 30233666001, 30233666002, 30233666003, 30233666004, 30233666005, 30233666006, 30233666007,

30233666008, 30233666009, 30233666010

METHOD BLANK: 1360964 Matrix: Water

Associated Lab Samples: 30233666001, 30233666002, 30233666003, 30233666004, 30233666005, 30233666006, 30233666007,

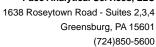
30233666008, 30233666009, 30233666010

|                          |       | Blank  | Reporting |       |                |            |
|--------------------------|-------|--------|-----------|-------|----------------|------------|
| Parameter                | Units | Result | Limit     | MDL   | Analyzed       | Qualifiers |
| PCB-1016 (Aroclor 1016)  | ug/L  | 1.0 U  | 1.0       | 0.044 | 10/28/17 01:09 |            |
| PCB-1221 (Aroclor 1221)  | ug/L  | 1.0 U  | 1.0       | 0.054 | 10/28/17 01:09 |            |
| PCB-1232 (Aroclor 1232)  | ug/L  | 1.0 U  | 1.0       | 0.056 | 10/28/17 01:09 |            |
| PCB-1242 (Aroclor 1242)  | ug/L  | 1.0 U  | 1.0       | 0.021 | 10/28/17 01:09 |            |
| PCB-1248 (Aroclor 1248)  | ug/L  | 1.0 U  | 1.0       | 0.030 | 10/28/17 01:09 |            |
| PCB-1254 (Aroclor 1254)  | ug/L  | 1.0 U  | 1.0       | 0.026 | 10/28/17 01:09 |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | 1.0 U  | 1.0       | 0.026 | 10/28/17 01:09 |            |
| Decachlorobiphenyl (S)   | %     | 63     | 17-118    |       | 10/28/17 01:09 | CH         |
| Tetrachloro-m-xylene (S) | %     | 88     | 41-107    |       | 10/28/17 01:09 | CH         |

| Parameter         Units         Spike Conc.         LCS Result         LCS % Rec         Limits         Qualifiers           PCB-1016 (Aroclor 1016)         ug/L         1.2         1.3         104         60-109           PCB-1260 (Aroclor 1260)         ug/L         1.2         1.4         111         53-114           Decachlorobiphenyl (S)         %         59         17-118 CH           Tetrastellar and the state of | LABORATORY CONTROL SAMPLE: | 1360965 |       |        |       |          |            |
|--|----------------------------|---------|-------|--------|-------|----------|------------|
| PCB-1016 (Aroclor 1016)       ug/L       1.2       1.3       104       60-109         PCB-1260 (Aroclor 1260)       ug/L       1.2       1.4       111       53-114         Decachlorobiphenyl (S)       %       59       17-118 CH  |                            |         | Spike | LCS    | LCS   | % Rec    |            |
| PCB-1260 (Aroclor 1260) ug/L 1.2 1.4 111 53-114 Decachlorobiphenyl (S) % 59 17-118 CH  | Parameter                  | Units   | Conc. | Result | % Rec | Limits   | Qualifiers |
| Decachlorobiphenyl (S) % 59 17-118 CH  | PCB-1016 (Aroclor 1016)    | ug/L    | 1.2   | 1.3    | 104   | 60-109   |            |
|  | PCB-1260 (Aroclor 1260)    | ug/L    | 1.2   | 1.4    | 111   | 53-114   |            |
| Tatas ablance as unless a (C) 0/   | Decachlorobiphenyl (S)     | %       |       |        | 59    | 17-118(  | CH         |
| Tetrachioro-m-xylene (S) % 88 41-107 CH  | Tetrachloro-m-xylene (S)   | %       |       |        | 88    | 41-107 ( | CH         |

| MATRIX SPIKE & MATRIX SP | IKE DUPLIC | ATE: 13609  | 66    |       | 1360967 |        |       |       |        |     |     |      |
|--------------------------|------------|-------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
|                          |            |             | MS    | MSD   |         |        |       |       |        |     |     |      |
|                          |            | 30233666002 | Spike | Spike | MS      | MSD    | MS    | MSD   | % Rec  |     | Max |      |
| Parameter                | Units      | Result      | Conc. | Conc. | Result  | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| PCB-1016 (Aroclor 1016)  | ug/L       | 0.97 U      | 1.2   | 1.2   | 1.3     | 1.2    | 105   | 102   | 60-109 | 2   | 25  |      |
| PCB-1260 (Aroclor 1260)  | ug/L       | 0.97 U      | 1.2   | 1.2   | 1.4     | 1.4    | 112   | 110   | 53-114 | 1   | 25  |      |
| Decachlorobiphenyl (S)   | %          |             |       |       |         |        | 72    | 76    | 17-118 |     |     | CH   |
| Tetrachloro-m-xylene (S) | %          |             |       |       |         |        | 87    | 86    | 41-107 |     |     | CH   |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





### **QUALITY CONTROL DATA**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Tetrachloro-m-xylene (S)

Date: 10/30/2017 03:36 PM

QC Batch: 276893 Analysis Method: EPA 608
QC Batch Method: EPA 608 SF Analysis Description: 608 GCS PCB

%

Associated Lab Samples: 30233666011

METHOD BLANK: 1360968 Matrix: Water

Associated Lab Samples: 30233666011

|                          |       | Blank  | Reporting |       |                |            |
|--------------------------|-------|--------|-----------|-------|----------------|------------|
| Parameter                | Units | Result | Limit     | MDL   | Analyzed       | Qualifiers |
| PCB-1016 (Aroclor 1016)  | ug/L  | 1.0 U  | 1.0       | 0.044 | 10/27/17 19:01 |            |
| PCB-1221 (Aroclor 1221)  | ug/L  | 1.0 U  | 1.0       | 0.054 | 10/27/17 19:01 |            |
| PCB-1232 (Aroclor 1232)  | ug/L  | 1.0 U  | 1.0       | 0.056 | 10/27/17 19:01 |            |
| PCB-1242 (Aroclor 1242)  | ug/L  | 1.0 U  | 1.0       | 0.021 | 10/27/17 19:01 |            |
| PCB-1248 (Aroclor 1248)  | ug/L  | 1.0 U  | 1.0       | 0.030 | 10/27/17 19:01 |            |
| PCB-1254 (Aroclor 1254)  | ug/L  | 1.0 U  | 1.0       | 0.026 | 10/27/17 19:01 |            |
| PCB-1260 (Aroclor 1260)  | ug/L  | 1.0 U  | 1.0       | 0.026 | 10/27/17 19:01 |            |
| Decachlorobiphenyl (S)   | %     | 50     | 17-118    |       | 10/27/17 19:01 |            |
| Tetrachloro-m-xylene (S) | %     | 79     | 41-107    |       | 10/27/17 19:01 |            |

LABORATORY CONTROL SAMPLE: 1360969 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers PCB-1016 (Aroclor 1016) 1.2 1.1 60-109 ug/L 88 PCB-1260 (Aroclor 1260) ug/L 1.2 100 1.2 53-114 2c Decachlorobiphenyl (S) % 36 17-118

76

41-107

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



1638 Roseytown Road - Suites 2,3,4 Greensburg, PA 15601 (724)850-5600

### **QUALIFIERS**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

### **DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **LABORATORIES**

PASI-PA Pace Analytical Services - Greensburg

### **BATCH QUALIFIERS**

Batch: 276893

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### **ANALYTE QUALIFIERS**

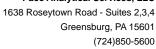
Date: 10/30/2017 03:36 PM

1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

2c Result reported from front column due to low response for this analyte in the ICV on the rear column.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased

high.





### **QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: National Grid - Buffalo Dewey

Pace Project No.: 30233666

Date: 10/30/2017 03:36 PM

| Lab ID      | Sample ID            | QC Batch Method | QC Batch | Analytical Method | Analytical<br>Batch |
|-------------|----------------------|-----------------|----------|-------------------|---------------------|
| 30233666001 | MW-1-1017            | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666002 | MW-6-1017            | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666003 | MW-6-MS-1017         | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666004 | MW-6-MSD-1017        | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666005 | MW-9-1017            | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666006 | MW-11-1017           | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666007 | MW-12-1017           | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666008 | MW-20-1017           | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666009 | MW-21-1017           | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666010 | MW-24-1017           | EPA 608 SF      | 276892   | EPA 608           | 277042              |
| 30233666011 | Field Duplicate-1017 | EPA 608 SF      | 276893   | EPA 608           | 276951              |



# CHAIN-OF-CUSTODY / Analytical-Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| www.pacelabs.com                                   |  |                 |   |  |               |   |                      |  |                 |                                   | M.                 | O                |   |             |                    |                    | ľ                                  |
|--|--|-----------------|---|--|---------------|---|----------------------|--|-----------------|-----------------------------------|--------------------|------------------|---|-------------|--------------------|--------------------|------------------------------------|
| Section A  | Section B  | Section         | 2   |  |               |   |                      |  |                 | )<br>(^)                          |                    |                  |   |             | Page:              | 10                 | -                                  |
| Required Client Information;                       | Required Project Information:  | Invoice         |   |  |               |   |                      |  |                 |                                   |                    |                  |   |             |                    |                    |                                    |
| Company: GES - Syracuse                            | Report To: Devin Shay (GES)<br>dshay@gesoniine.com   | Attention:      | n: Accounts Payable via email at NERegion@gesonline.com   | able via emall   | at NERegion   | @gesonline.c  | E<br>E               |  |                 |                                   |                    |                  | REGULA                                    | TORY        | REGULATORY AGENOY  |                    |                                    |
| Address: 5 Technology Place, Suite 4               | Report To: Tim Beaumont (GES)  | Company         | y Name: Groundwater & Environmental Services, Inc.  | iwater & Envi  | ronmental Ser | vices, Inc.   |                      |  |                 |                                   | NPDES              |                  | GRO JD WATER                              | DRI         | DRIE ING WATER     | Ë                  |                                    |
| East Syracuse, New York 13057                      |  | Address:        | : 5 Technology Place, Suite 4, East Syracuse, NY 13057  | lace, Suite 4,   | East Syracus  | e, NY 13057   |                      |  |                 |                                   | TSU T              | RCR              |   | OTF         |                    | 1                  |                                    |
| Email To: dshay@gesonline.com                      | Purchase Order No.:  | Pace Quo        | note Reference:   |  |               |   |                      |  |                 |                                   |                    | SITE             | GA GA                                     | 1           | 2                  | ×                  | ñ                                  |
| Phone: 800.220.3069                                | Project Name: National Grid - Buffalo Dewey Pace Project Manager: Rachel Christiner<br>Avenue Site. Buffalo, NY  | wey Pace Pr     | oject Manager. F  | Rachel Christn   | er            |   |                      |  |                 |                                   | LOCATION           | 8                | НО  | SC          | ×                  | OTHER.             | <u>e</u>                           |
| ested Due Date/TAT: Standard                       | Project Number: 06-03000-142140-221-1106 Pace Profile #.   | 1106 Pace Pr    | опе #:  |  |               |   |                      |  |                 |                                   | Filtered (Y/N)     | 6                | ,   | //          | ///                |                    |                                    |
| ation  | Valid Marta Codes  AMATRIX CODE CHANGES No Province No Water No Wa | - dwoo=o        | COLLE   | COLLECTED  |               | NOJT:   |                      | Pres   | Preservatives   | E                                 | Requested          | 302              | 30233666                                  | <b>99</b>   | \<br>\<br>\<br>!   |                    |                                    |
| (A-2, 0-9 / -)<br>Samples IDs MUST BE UNIQUE       | 2 g & 2 5  | COMPOSITE STARY |   | GRAB   |               | enitra (esperimento)  |                      |  |                 |                                   |                    |                  |   |             |                    |                    |                                    |
|  | NATIAM.  |                 |   |  |               | TA 9M3T <u>s</u><br>ATNOD 909                                     |                      |  |                 | 305                               | 30233666           |                  |   |             |                    |                    |                                    |
| # W∃⊥  |  | SAMPLE TY       | @<br>\  | DATE   | E<br>E        | Zhattarian (at aranta) (5 Sant Sant Sant Sant Sant Sant Sant Sant | рвыезвыби            | INO?   | (8OH            | cO <sub>2</sub> O <sub>2</sub> el | yerir(             | [1] \$808) \$80g |   |             |                    | ğ                  | Pace Project<br>Number<br>Lab I.D. |
|  | 7) WT  | Ø               |   | Cestor   | 82            | 2   |                      |  |                 |                                   |                    | 2                |   |             | 8                  |                    |                                    |
|  |  | 9               |   | C 200  | 1             | 2   | 2                    |  |                 |                                   |                    | 7                |   |             | 8                  |                    |                                    |
| M  |  | 9               |   | C 8 0  |               | 2   | 2                    |  |                 |                                   |                    | 2                |   |             | Š                  |                    | (manussa)                          |
|  |  | ၅               |   | CHE.   | 1115          | 2   | 2                    |  |                 |                                   | 22.00              | 2                |   |             | 8                  |                    |                                    |
| 5 MW-9-1017  | 17 W.T   | ø               |   | Val of   | S o S         | 2   | 7                    |  |                 |                                   | <b>3</b>           | 2                |   | AFARA FILOS | 003                |                    | (uncantille                        |
| MW-11-1017   | 117 WT   | 9               |   | Chestol  | 356           | 2   | 2                    |  |                 |                                   |                    | 7                |   |             | 3                  |                    |                                    |
| 7 MW-12-1017                                       | 117 wT   | 9               |   | Chales   | 210           | 2   | 2                    |  | $\dashv$        | $\dashv$                          |                    | 2                |   |             | 8                  |                    |                                    |
| B MVV-20-1017                                      | 117 WT   | 9               |   | ē<br>G   | S<br>S        | 2   | 2                    |  | 4               | _                                 |                    | 2                |   |             | 8                  |                    |                                    |
| .9 MW-21-1017                                      | 117 WT   | ŋ               |   | Clife  | ٥<br>چ        | 7   | 2                    | 7  | 4               | 1                                 |                    | 2                |   | $\dashv$    | 3                  |                    |                                    |
| "io MW-24-1017                                     | )17 WT   | ŋ               |   |  | Z             | 2   | 7                    | 4  | 4               |                                   |                    | 7                |   | _           | 2<br>5<br>0        |                    |                                    |
| Field Duplicate-1017                               | e-1017   | 9               |   | 26.6   | ,             | 2   | 2                    | 4  |                 |                                   |                    | 2                |   | +           | 5                  |                    |                                    |
| (2END OF RECORD                                    | -  |                 |   |  |               | 088   |                      |  |                 |                                   |                    |                  |   |             |                    | i                  |                                    |
|  |  |                 | Notification of the second of | 2  |               |   |                      | )<br>  |                 | Z.                                |                    | 7                |   |             | SAINFLE CONDITIONS | ב<br>ב<br>ב        |                                    |
| SAMPLES WILL ARRIVE IN #                           | COOLERS  | }               | <b>Y</b>  |  |               | 96  |                      |  |                 |                                   |                    |                  | 3   | 1           | N/                 | ØN/                | χ) <sub>N</sub> ν                  |
| ituoviia@gesoniine.com                             |  |                 | -   |  |               | -   |                      | •  |                 |                                   |                    | -                |   | _           | A N                | V N                | У М                                |
| Please send reports to: dshay@gesonline.com,       | , mos  |                 |   |  |               |   |                      |  |                 |                                   |                    | -                |   | 1           | 'A N               | IX N               | 'A N                               |
| eaumont@gesonline.com, Syracuselabs@gesonline.com, | ⊉gesonline.com,  |                 | WIGHTAN GEORGE  | State of the state |               |   | Albaton spoke (I/II) | Service Servic | NAMES OF STREET |                                   |                    |                  |   |             | <u>/\</u>          | ر الم              | <u>۸</u>                           |
| es@equisonline.com<br>SPECIFIC EDD NAME:           |  |                 | SAMPLER NAME A PRINT Name of SAMPLER:   |  |               |   | 7                    |  |                 |                                   |                    |                  |   | ⊃° ni qm    | eo(                | uslody<br>ed Coole | amptes<br>Intact                   |
| SGBuffaloDeweyAve-labnumber.28351.EQEDD.zip        | 1.EQEDD.zip  |                 | SIGNATURE of SAMPLER  | r SAMPLER:   | A<br>)        |   |                      |  | DAT             | Signed (N                         | 1.8.123<br>1.8.123 |                  |   | Ter         | Вес                | Seal<br>C          | S                                  |
| .7   |  |                 |   | )  | )             |   |                      |  |                 | •                                 | 20.                |                  | E-File, (ALLQ020rev.3,31Mar05), 13Jun2005 | 20rev.3,3   | 1Mar05), 1:        | Mun2005            |                                    |

| Pittsburgh Lab S   | ample cond              | HOII   | عم   | ,  | (CCC)Pt                 |  |   |
|--|-------------------------|--------|------|--|-------------------------|--|---|
| Pace Analytical  |                         |        |      |  | 3                       | D :  |   |
| / Cli  | ent Name:               |        | (2   | <u>(                                    </u> | <u> </u>                | Project #_   | 302336  |
| Courier: 🗹 Fed Ex 🗌 UPS  | ☐ USPS ☐ Clier          | nt 🗆   | Comm | ercia  | I ☐ Pace Other          |  | Label 274                                     |
| <i>c</i>   | 3622542                 |        | _    |  | _                       |  | IMS Login                                     |
| Custody Seal on Cooler/Box   |                         |        | no   | Sea  | is√intact: ∠E yes l     | □ no   | Mooi  |
| Thermometer Used   | _8 *_                   |        |      |  | Blue None               |  |   |
| Cooler Temperature Obse  | erved Temp 1.           | -      | ٠c   | Cor  | rection Factor: 💍 🕓     | <u>&gt;</u> °C Final T   | emp: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \    |
| Temp should be above freezing to   | 6°C                     |        |      |  |                         | cameration and a second  | - payan manananananananananananananananananan |
|  |                         |        |      |  | _                       | Date and In  | itials of person examining                    |
| Comments:  |                         | Yes    | No   | N/A  | \                       | . Lasannine ninnene sine suore   |   |
| Chain of Custody Present:  |                         | 1      | ļ    |  | 1.                      |  |   |
| Chain of Custody Filled Out:   |                         | 100    |      |  | 2.                      |  |   |
| Chain of Custody Relinquished  |                         | _      |      |  | 3.                      |  | M. M      |
| Sampler Name & Signature on  | COC:                    |        |      |  | 4.                      |  |   |
| Sample Labels match COC;   | i                       | affa . |      |  | 5.                      |  |   |
| -Includes date/time/ID   | Matrix:                 | V-1    |      |  |                         |  |   |
| Samples Arrived within Hold Tir  | ne:                     | /      |      |  | 6.                      |  |   |
| Short Hold Time Analysis (<72  | 2hr remaining):         |        | ,    |  | 7.                      |  |   |
| Rush Turn Around Time Requ   | ested:                  |        |      |  | 8 PM 10 20              | $\bigcap$  |   |
| Sufficient Volume:   |                         | /      |      |  | 9.                      |  |   |
| Correct Containers Used:   |                         | /      |      |  | 10.                     |  |   |
| -Pace Containers Used:   |                         | /      |      |  |                         |  |   |
| Containers Intact:   |                         | /      |      |  | 11.                     |  |   |
| Orthophosphate field filtered  |                         |        |      | /  | 12.                     |  |   |
| Hex Cr Aqueous Compliance/NPDE   | S sample field filtered |        |      | /  | 13.                     | 479-004  |   |
| Organic Samples checked fo   | r dechlorination:       |        |      |  | 14.                     | 111-11 | 1.10 m s 200 m s 1                            |
| Filtered volume received for Diss  | solved tests            |        |      | /  | 15.                     |  |   |
| All containers have been checked fo                                      | r preservation.         |        |      |  | 16.                     |  |   |
| All containers needing preservation a compliance with EPA recommendation |                         |        |      |  |                         |  |   |
| exceptions: VOA, coliform, TOC   | - O.C. Phanalias        |        |      |  | Initial when completed  | Date/time of preservation  |   |
| exceptions. VOA, combin, roc   | , Oag, Filenoiig        |        |      |  | Lot # of added          | preservation   | ·   |
|  |                         |        | ···· |  | preservative            |  |   |
| leadspace in VOA Vials ( >6mm  | );                      |        |      | /  | 17.                     |  |   |
| Frip Blank Present:  |                         |        |      | /  | 18.                     |  |   |
| rip Blank Custody Seals Presen   |                         |        |      |  |                         |  |   |
| Rad Aqueous Samples Screen   | ed > 0.5 mrem/hr        |        |      |  | Initial when completed: | Date:  |   |
| lient Notification/ Resolution:  |                         |        |      |  |                         |  |   |
| Person Contacted:  |                         |        |      | Date/1                                       | ime:                    | Contacted  | I B <u>y:</u>                                 |
| Comments/ Resolution:  | <del></del> .           |        |      |  |                         |  |   |
|  |                         |        |      |  |                         |  |   |

 $\ \square$  A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

\*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.